By Email

Our Ref: 24-218.10L

FAO Sam Buswell
Countryside Partnerships (Yorkshire)
1 Red Hall Avenue
Paragon Business Village
Wakefield
WF1 2UL

Arc Environmental Ltd
Solum House
Unit 1 Elliott Court
St John's Road
Meadowfield
Durham
DH7 8PN

12th December 2025

Dear Sam,

RE: Verification of Hazardous Ground Gas Protection Measures at Plots 3, 4, 5, 8 and 9, Land at Hollin Bank, Hollingworth Road, Littleborough

Plots 3, 4, 5, 8 and 9 have been inspected by Countryside Partnerships (Yorkshire). At this stage it is recommended that 1 in 10 plots be independently verified, with the remainder inspected by Countryside Partnerships (Yorkshire). These two plots represent the third and fourth to be inspected by Countryside Partnerships, and the next plot will be independently verified by Arc Environmental Ltd..

From the results of the hazardous ground gas risk assessment completed by Arc Environmental Ltd, it was determined that the installation of gas protective measures to meet BS8485:2015+A1:2019 – CS2 classification were required, in order to negate any potential risks to the proposed end users.

In order to ensure that the gas protective measures were properly implemented validation works have been undertaken comprising the inspection of the construction and installation of the gas membrane, in general accordance with BS8485:2015 & A1:2019 - Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings, and CIRIA C735:2014 - 'Good Practice on the Testing and Verification of Protection Systems for Buildings Against Hazardous Ground Gas'.

The inspection details are summarised in Table 1 below and continued on the following page. Photographic record sheets for the inspections are also attached with this report.

Table 1

1. Development Summary		
1.1	Type of development and building/blocks inspected	Residential development comprising 126 no. dwellings (1 no. block of 3 terraced houses, 25 no. blocks of semi-detached houses and 73 no. detached houses).
1.2	Foundation type	Majority of plots utilise strip foundations with a suspended block & beam floor and sub floor void. Plots 62-68 alone utilised raft foundations.
1.3	Gas protection type	Majority of plots utilise passive vented sub–floor void and installation of hazardous ground gas barrier membrane. Plots 62-68 alone utilise a cast in-situ reinforced concrete raft with integral retaining wall and fully tanked basement, along with hazardous ground gas barrier membrane.

Table 1 (Cont'd)

2. Passive Venting		
2.1	Sub-floor void	A c.150mm minimum sub-floor void has been constructed below the block and beam floor and this was noted to be vented by way of telescopic swan neck vents (see photographic record sheets). Excluding plots 62-68 which utilise a raft foundation and tanked basement.
2.2	External wall airbricks	c.210mm x c.70mm airbricks with double telescopic swan neck vents to sub-floor void at regular intervals / spacings.
3. Gas Barrier Membrane		
3.1	Condition of sub-grade and underside of gas membrane	No sub-grade present – block & beam and cavity wall construction in all plots aside from 62-68. Floor cleaned before laying gas barrier membrane and noted to be free of significant debris.
3.2	Gas membrane type	Juta GP5 Gas Barrier Membrane (blue) is an extremely robust and high-performance ground gas resistant membrane and also provides protection against moisture. The membrane was laid across all the individual floor areas, and joints between sections of membrane were heat welded. Juta GP DPC is a high specification multi-layer damp proof course (DPC) designed to be sufficiently durable to build into perimeter cavity and load bearing walls as part of a gas barrier membrane system to resist moisture and ground gasses. Where the DPC is joined to the GP5 Gas Barrier Membrane, the joint was heat welded. Juta GP Titantech DPC is a high performance single-layer damp proof course (DPC) designed to be sufficiently durable to build into perimeter cavity and load bearing walls as part of a gas barrier membrane system to resist moisture and ground gasses. Where the DPC is joined to the GP5 Gas Barrier Membrane, the joint was heat welded. Juta Gas Resistant Self Adhesive Membrane (GR SAM) was used to seal all service entries and repair any damage to the membrane.
3.3	Extent of coverage	The extent of the Gas Barrier Membrane coverage was confirmed over all floor areas and was lapped over the perimeter GAS DPC. The laps were sealed with by heat welding.
3.4	Slab / membrane condition	The condition of the Gas Barrier Membrane was confirmed as being in good condition, and any holes or tears were repaired using GR SAM.
3.5	Joining details	The Juta GP5 Gas Barrier Membrane sheets across the floor areas were jointed to each other utilising heat welding.
3.6	Damp proof membrane	Juta GP DPC or Juta GP Titantech DPC was used as a DPM across all floor areas (in accordance with manufacturers specifications). Confirm all laps and joints were heat welded to the Gas Barrier Membrane.
3.7	Service entries and seals	GR SAM was used to seal the Gas Barrier Membrane to every service entry point in the floor slab.
3.8	Service ducts	Service ducts will require appropriate sealing using a closed cell sealant such as FiloSeal or FiloForm. It remains the responsibility of the main contractor to provide photographic evidence of service duct sealings to the Local Authority once services have been pulled through the ducts, if required.

Based on the information provided by Countryside Partnerships, this validation letter confirms that the hazardous ground gas protective measures within Plots 3, 4, 5, 8 and 9 of the residential development have been satisfactorily installed, and inspected by Countryside Partnerships.

RE: Verification of Hazardous Ground Gas Protection Measures at Plots 3, 4, 5, 8 and 9, Land at Hollin Bank, Hollingworth Road, Littleborough

It is deemed suitable to continue a verification regime of 1 in 10 plots, and this report represents the fifth to ninth plots inspected by Countryside Partnerships at a 1 in 10 frequency, and the next plot be independently verified by Arc Environmental.

We trust the information we have provided to you is to your satisfaction. However, if you require any further information or clarification, please do not hesitate to contact us.

Yours sincerely



.....

Thomas White
Associate
For and on behalf of Arc Environmental Limited

Photographic Record Sheets

T: 0191 378 6380
E: admin@arc-environmental.com
W: www.arc-environmental.com
Registered in England No. 05539784

Citation ISO Certification
Quality management
ISO 9001: 2015
REGISTERED
Certificate No:368032021
Constructionline
Gold Member
CHAS
smas worksafe consultant
www.smasltd.com
as recognised by SSIP SAFETY SCHEMES IN PROCUREMENT

PLOT 3 GAS MEMBRANE

Thursday, 6 November 2025

6 Issues Identified



PHOTO 1

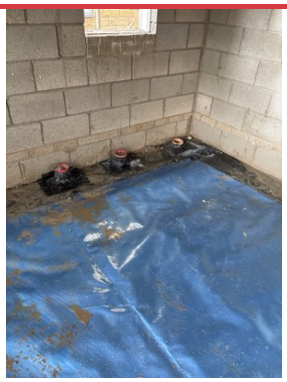


PHOTO 2



PHOTO 3

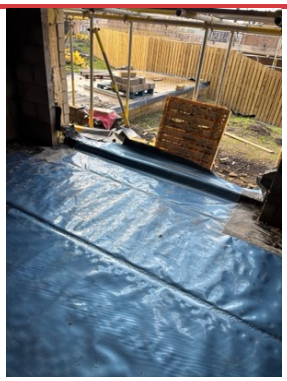


PHOTO 4



PHOTO 5



PHOTO 6



Littleborough - Plot 4 -Gas Membrane Validation Photos

24-218

Friday, 12 December 2025

Prepared For Countryside Partnerships (Yorkshire)



Photo 1



Photo 2



Photo 3

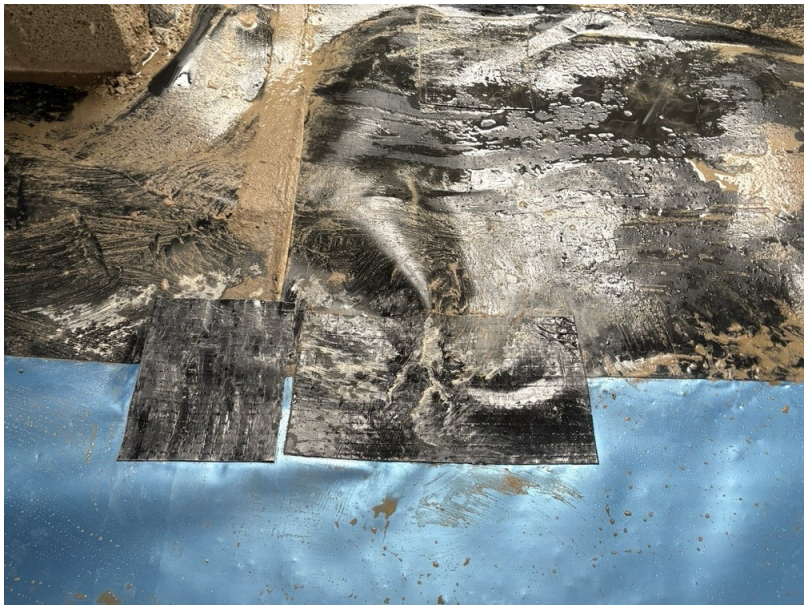


Photo 4

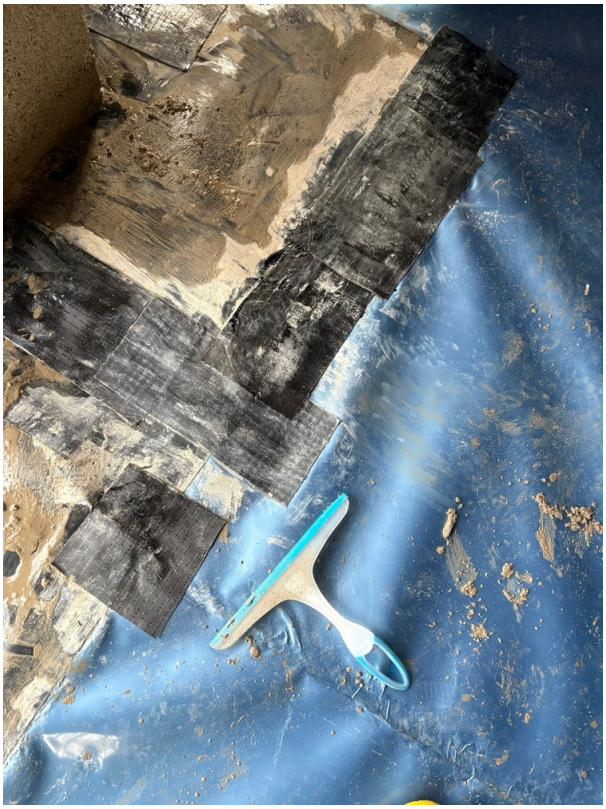


Photo 5

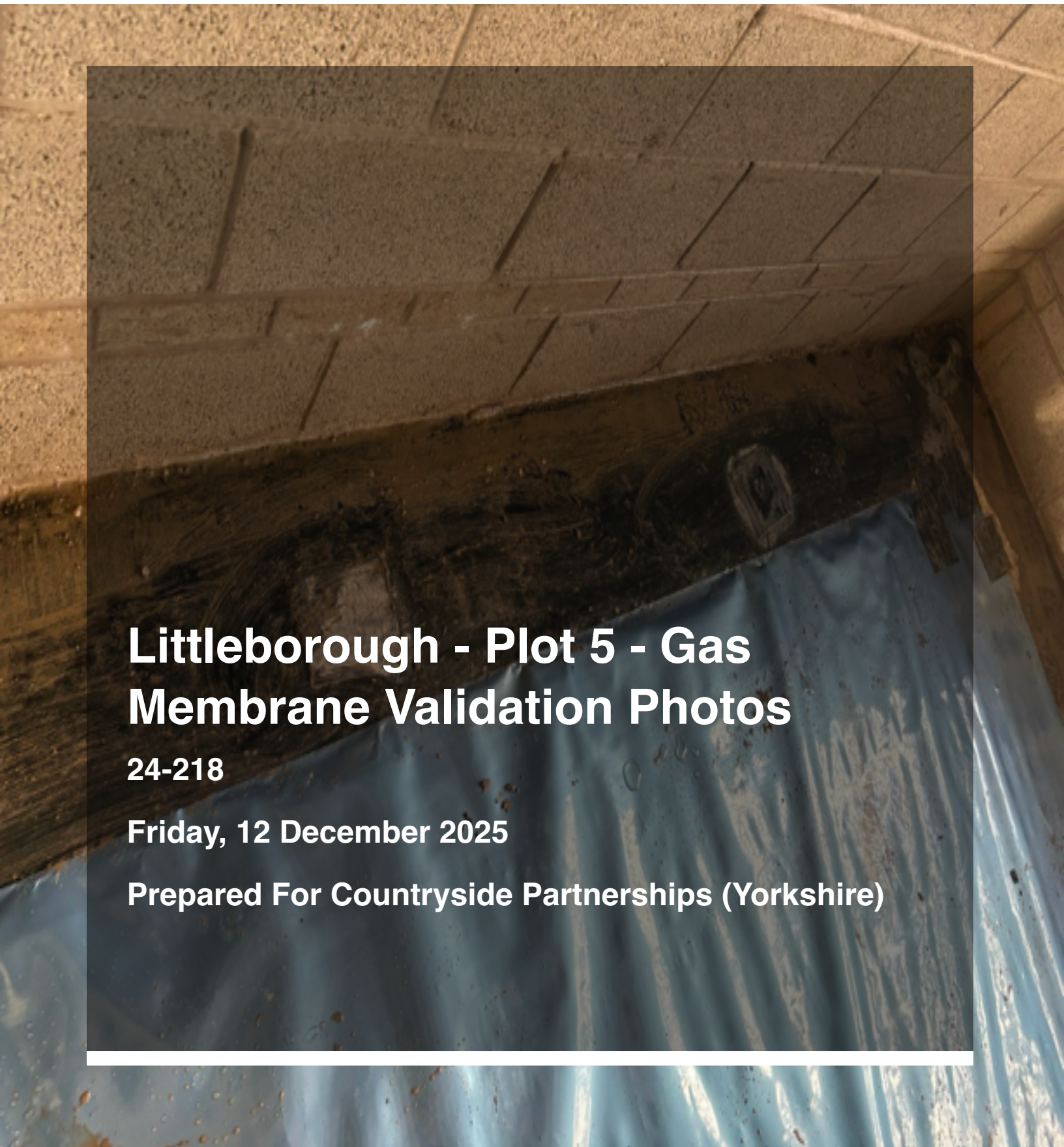


Photo 6



Photo 7

Thomas White
Arc Environmental Ltd



Littleborough - Plot 5 - Gas Membrane Validation Photos

24-218

Friday, 12 December 2025

Prepared For Countryside Partnerships (Yorkshire)



Photo 1



Photo 2



Photo 3



Photo 4

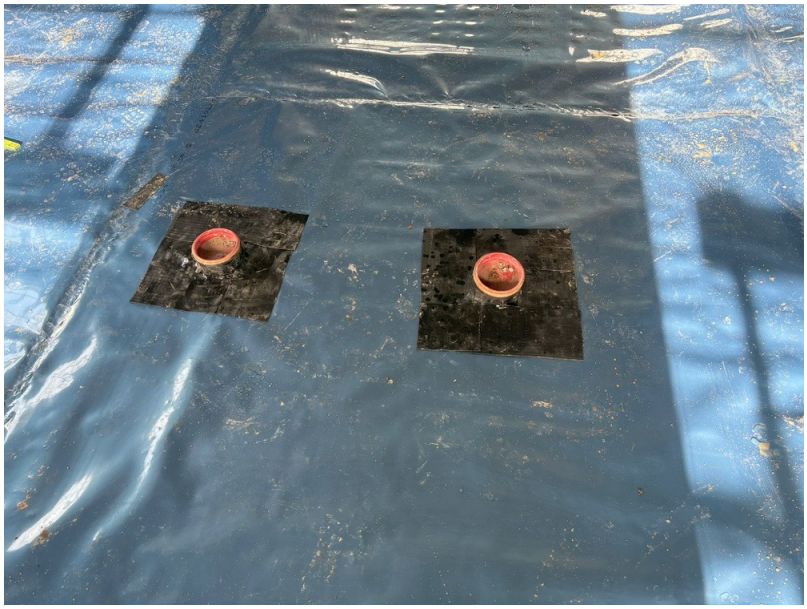


Photo 5

Thomas White
Arc Environmental Ltd

PLOT 8 GAS MEMBRANE

Thursday, 6 November 2025

6 Issues Identified

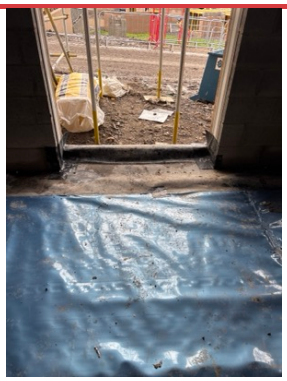


PHOTO 1

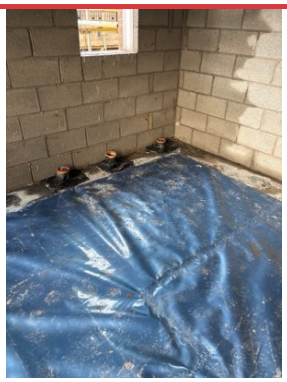


PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHONE 6



Littleborough - Plot 9 - Gas Membrane Validation Photos

24-218

Friday, 12 December 2025

Prepared For Countryside Partnerships (Yorkshire)



Photo 1



Photo 2

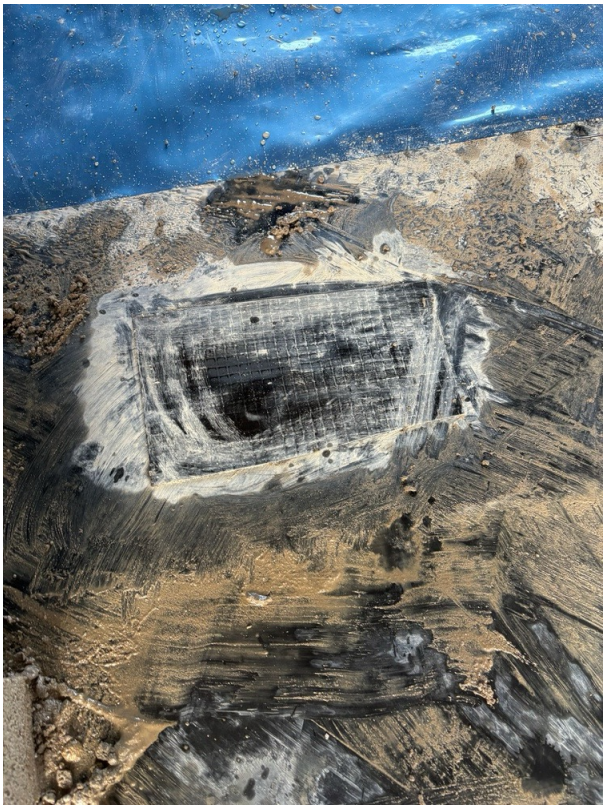


Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8

Thomas White
Arc Environmental Ltd

Product Specifications

T: 0191 378 6380
E: admin@arc-environmental.com
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ISO 9001: 2015
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SSIP SAFETY SCHEMES IN PROCUREMENT

GROUND GAS PROTECTION
GP® DPC
TECHNICAL DATA SHEET

JUTA | TITANTECH®



GP® DPC

GP® DPC - Gas Resistant DPC is a unique single layer, embossed High Performance DPC. GP® DPC is specifically designed and manufactured to perform as a methane, carbon dioxide, radon and moisture resistant damp proof course.

Thickness	0.8 mm
Width	100-1200 m
Length	20 m
Weight	730 g/m²

TITANTECH®
For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

GP® DPC complies with the latest codes of practice as published by BRE, CIRIA and BSI (BS EN 14909 and BS8485:2015). Suitable for use as a High Performance DPC for vertical and horizontal applications. Superior adhesion to mortar is essential for buildings of 3+ storey height.

GP® DPC has an embossed surface to create superior mortar adhesion which is essential when being used in 3+ storey applications. JUTA GP® DPC is compliant to BS EN 14909:2012 and can be used in both vertical and horizontal applications.

Handling
Roll weights can be in excess of 5 kg and hence appropriate care and equipment is required for unloading and handling.

Named Accessory in Certification

BBA Approval Inspection Testing Certification

Please Scan

CE UK CA UK NI

Rev 2024

GROUND GAS PROTECTION
GP® DPC
TECHNICAL DATA SHEET

GP® DPC

Feature	Characteristics	Test Method	GP® RADON DPC
Physical Properties	Thickness	EN 1849-2	0.8 mm
	Width	EN 1849-2	100-1200 m
	Length	EN 1849-2	20 m
	Weight	EN 1849-2	730 g/m^2
Hydraulic Properties	Water Vapour Permeation	EN 1931	0.09 g/m^2/day
	Resistance to Water Penetration	EN 1928	Pass
Mechanical Properties	Resistance to Static Load	EN 12730 - B	20 kg
	Tensile Strength (MD)	EN 12311-1	24 N/mm^2
	Tensile Strength (CMD)	EN 12311-1	22 N/mm^2
	Tensile Elongation (MD)	EN 12311-1	398%
	Tensile Elongation (CMD)	EN 12311-1	446%
	Resistance to Impact	EN 12691	660 mm
	Resistance to Tearing (Nail Shank) MD	EN 12310-1	700 N
	Resistance to Tearing (Nail Shank) CMD	EN 12310-1	750 N
	Joint Strength	EN 12317-1	520 N
Durability and Chemical Resistance	Heat Ageing	EN 1926	Pass
	Chemical Resistance	EN 1847	Pass
	Resistance to Fire	EN 13501-1	Class F
	Resistance to Low Temperature	EN 495-5	Pass @ -40°C
Gas Permeability	Radon Permeability	K124/02/95	9.5x10^{-12}/m^2/s
	Methane Permeability	BS EN ISO 15105-1	33.9ml/m^2/day/atm
Compliance and Certification	CE Mark - EN13967:2012		
	NHBC Standards Compliant		
	BS EN 14909:2012 Compliant		
	BS 8485:2015 Compliant		

Feature	Pre-Compression (N/mm^2)	Characteristic Shear Strength (N/mm^2)
Characteristic Shear Strength	0.2	0.14
	0.6	0.34
	1.0	0.52

JUTA UK

For additional information or assistance, please contact JUTA UK directly.

Storage

Rolls of JUTA GP® DPC should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged but should be protected from exposure to UV. JUTA GP® DPC is classified as non-hazardous and is chemically inert such that it will not react with any acid or alkali environment in which it is used.

GROUND GAS PROTECTION
GP® DPC
TECHNICAL DATA SHEET

GP® DPC

Installation

GP® DPC must be installed in accordance with the guidelines laid out in BS8215:1991, BS8000: part 3 and BS 5628. It can be used in most common floor constructions and is installed in a similar manor to damp proof membrane. For external walls the DPC should be applied 150mm above the adjoining surface and should be linked to a DPM or Gas Resistant DPM in solid floors. The DPC should be applied to a fresh bed of mortar, completely free of projections that may puncture the material or impede the DPC from lying flat.

Joining and Sealing

Sheets of GP® DPC must be clean, dry and free from dirt and grease before application of joining tape. JUTA GP® DPC may also be heat welded to the underlying Gas resistant membrane.

Accessory Products

JUTA GP® DPC is an accessory product for use in combination with GP® 1, GP® 2, GP®H, GP®SAM and GP® TITANTECH gas protective membranes. It is also compatible with a range of DPM and other DPC materials.

JUTA UK

For additional information or assistance, please contact JUTA UK directly.

GROUND GAS PROTECTION
GP®5 TECHNICAL DATA SHEET

JUTA | TITANTECH®



GP®5

GP®5 gas barrier is a multi-layer composite of virgin polyethylene (PE) giving exceptional resistance to the passage of ground gas and organic vapours. It also acts as a high performance DPM.

Thickness	0.4 mm
Width	Various m
Length	Various m
Weight	400 g/m²

TITANTECH®
For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

GP®5 is suitable for the following applications:

- Carbon dioxide and methane affected sites in accordance with BS 8485:2015 + A1:2019 & NHBC
- Radon affected sites in accordance with BRE211:2015
- Damp protection in accordance with Building Regulations Part C
- Low level VOC contaminated sites (site specific assessment required)

Handling

Roll weights can be in excess of 20kg and hence appropriate care and equipment is required for unloading and handling.

Installation

GP®5 should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015.

Certifications

BBA Approval Inspection Testing Certification

Please Scan

CE UK CA UK NI

Rev 2024

GROUND GAS PROTECTION
GP®5 TECHNICAL DATA SHEET

GP®5

Feature	Characteristics	Test Method	GP®5
Physical Properties	Thickness	EN 1849-2	0.4 mm
	Width	EN 1849-2	Various m
	Length	EN 1849-2	Various m
	Weight	EN 1849-2	400 g/m^2
Hydraulic Press	Resistance to Water Penetration	EN 1928 (A)	Pass
Mechanical Properties	Resistance to Static Load	EN 12730	> 20 kg
	Tensile Strength (MD)	EN 12311-2 (A)	> 300 N/50mm
	Tensile Strength (CMD)	EN 12311-2 (A)	> 300 N/50mm
	Resistance to Tearing (Nail Shank) MD	EN 12310-1	> 230 N
	Resistance to Tearing (Nail Shank) CMD	EN 12310-1	> 230 N
	Impact Resistance	EN 12691-B	500 mm
	Puncture Resistance	ASTM D 4833	> 160 N
	Puncture Resistance	EN 12236	1.60 kN
	Reaction to Fire	EN 13501-1	E
Vapour Permeability	Methane Permeability	BS EN ISO 15105-1	0.12 ml/m^2/day/atm
	Carbon Dioxide Permeability	BS EN ISO 15105-1	1.53 ml/m^2/day/atm
	Hydrogen Permeability	BS EN ISO 15105-1	68.7 ml/m^2/day/atm
	Benzene Permeability	BS EN ISO 15105-2	0.41 ml/m^2/day
	Oxygen Permeability	BS EN ISO 15105-2	<3 ml/m^2/day
	Radon Permeability	K124/02/95	1.0 x 10^{-12} m^2/s
	Hydrogen Sulphide Permeability	BS EN ISO 15105-1	<0.68 ml/m^2/day/atm
Fuel Vapour Permeability	Petrol	BS EN ISO 15105-2	(ave.) 3.4 x 10^{-13} /mol/(m^2.s.Pa)
	Diesel	BS EN ISO 15105-2	(ave.) 3.4 x 10^{-13} /mol/(m^2.s.Pa)
Durability	Durability Watertightness After Artificial Ageing	EN 1928	Pass
	Durability Watertightness Against Chemicals	EN 1928	Pass
Compliance and Certification	CE Mark - EN 13967:2012		
	NHBC Standards Compliant		
	BS 8485:2015 + A1 2019 Accordant		

JUTA UK

Please contact JUTA UK Directly for more information on GP®5

Storage

Rolls of GP®5 should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV.

GROUND GAS PROTECTION
GP®5 TECHNICAL DATA SHEET

GP® 5

JUTA UK

Please contact JUTA UK Directly for more information on GP®5

Jointing and Sealing

It is recommended GP®5 can be heat welded where possible, with welding carried out by competent personnel with suitable qualifications in accordance with best practice, and guidance contained within BS 8485:2015. GP®5 should be overlapped by at least 100mm. If taping joints, only suitable tape must be used, ensuring application with a silicone roller to remove trapped air. JUTA pre-formed details, or self adhesive gas membrane are available for sealing around protuberances.

Accessory Products

- GP® DPC
- GP® Tape
- GP® Self Adhesive Membrane (SAM)
- GP® Primer
- GP® Top Hats and Preformed Corners
- GP® Protection Fleece
- GP® Void Vent (24/40mm)

Design Drawings

T: 0191 378 6380
E: admin@arc-environmental.com
W: www.arc-environmental.com
Registered in England No. 05539784

Citation ISO Certification
Quality management
ISO 9001: 2015
REGISTERED
Certificate No:368032021
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SSIP SAFETY SCHEMES IN PROCUREMENT



Schedule of Accommodation

Type BUT (Butterworth) 2 Bed 3 Person 2 Storey House 74.11m² M4(1) Visitable Dwelling		2no.
Type ATK (Atkins) 2 Bed 3 Person 2 Storey House 72.18m² M4(1) Visitable Dwelling		2no.
Type POP (Poplar) 3 Bed 5 Person 3 Storey House 118.59m² M4(1) Visitable Dwelling		7no.
Type NEW (Newall) 3 Bed 5 Person 3 Storey House 118.59m² M4(1) Visitable Dwelling		5no.
Type SPR (Spruce) 3 Bed 5 Person 2 Storey House 102.15m² M4(1) Visitable Dwelling		15no.
Type JES (Jessop) 3 Bed 5 Person 3 Storey House 107.72m² M4(1) Visitable Dwelling		7no.
Type HAZ (Hazel) 3 Bed 4 Person 2 Storey House 88.56m² M4(1) Visitable Dwelling		9no.
Type CYP (Cypress) 3 Bed 4 Person 2 Storey House 102.85m² M4(1) Visitable Dwelling		9no.
Type ROW (Rowan) 3 Bed 4 Person 2 Storey House 86.56m² M4(1) Visitable Dwelling		2no.
Type MAC (Macarthur) 4 Bed 5 Person 2 Storey House 99.06m² M4(1) Visitable Dwelling		4no.
Type STA (Stansfield) 4 Bed 5 Person 3 Storey House 121.87m² M4(1) Visitable Dwelling		12no.
Type WIL (Willow) 4 Bed X Person 2.5 Storey House 137.02m² M4(1) Visitable Dwelling		4no.
Type JUN (Juniper) 4 Bed 5 Person 2.5 Storey House 113.11m² M4(1) Visitable Dwelling		10no.
Type CHE I (Chestnut I) 4 Bed 5 Person 2.5 Storey House 127.00m² M4(1) Visitable Dwelling		7no.
Type CHE II (Chestnut II) 4 Bed 5 Person 3 Storey House 129.78m² M4(1) Visitable Dwelling		2no.
Type MAP (Maple) 4 Bed 6 Person 2 Storey House 166.00m² M4(1) Visitable Dwelling		8no.
Type ASP (Aspen) 4 Bed 7 Person 2 Storey House 127.30m² M4(1) Visitable Dwelling		10no.
Type BIR (Birch) 5 Bed 7 Person 2.5 Storey House 167.74m² M4(1) Visitable Dwelling		3no.
Type YEW (Yew) 5 Bed X Person 2.5 Storey House 170.20m² M4(1) Visitable Dwelling		5no.
Type LIM (Lime) 5 Bed 8 Person 3 Storey House 191.66m² M4(1) Visitable Dwelling + NDSS Compliant		3no.

Sub Total **126 No.**

Legend

- Affordable Homes
- ASHP Location - to be wall mounted on brackets in accordance with manufactured recommendations and details.
- Existing Mineshaft with 15m Easement
- Existing Culvert / UU Raw Water Main with 8m Easement
- Existing UU combined sewer to be retained
- Existing Electric Cable Route (to be retained)
- Existing Gas Main Route (to be retained)

External Materials

- Estate Roads - Tarmac
- Coloured Tarmac
- Block Paving - Hard Margin/Transition Strips
- Private Drives - Tarmac
- Footpaths - Tarmac
- Paving - 450 x 450 Slabs
- Grasscrete
- Gabion Cage Retainment.
- Masonry Retaining Wall
- Flag on Edge Retainment
- Gravel Board Retainment

All retainment shown indicatively, refer to Engineers drawings for specifiction.

- UU Easement.

- Bat Box.
- Sparrow Box.
- Starling Box.
- Swift Box.

Refer to the Pell Frischmann Preliminary Ecological Appraisal (October 2019) and The Envance Bird & Bat Box Proposals (July 2023) for further details in respect to the ecology features.

Site Plan
1 : 500

0m 10m 20m 30m 40m 50m

VISUAL SCALE 1:500

Rev	Date	Drawn	Checked	Description
P8	29.11.23	DW	AH	Paving to plots 22 and 93 amended in line with engineers levels amendments.
P7	23.10.23	DW	AH	Updated in line with client comments.
P6	17.10.23	DW	AH	Updated in lines with comments received.
P5	29.09.23	DW	AH	Updated in line with client comments
P4	10.07.23	DW	MI	Updated with coments from Countryside Partnerships
P3	3.07.23	DW	MI	Updated following receipt of updated engineers information.
P2	02.06.23	DW	MI	Updated with latest GA Plan information.
P1	26.05.23	DW	MI	Updated in line with Vistry Comments.

Suitability: S0 — Work In Progress

Hollin Gate

Site Plan

Location:
Hollingworth Road
Littleborough

Client:
Vistry Partnerships

Project	Originator	Type	Zone	Level	Type	Role	Sequence Number	Revision
HOLL	WBA	XX	XX	DR	A	20	1001	P8

Date:	Drawn:	Checked:	Scale: @A0	Sht Tplt No:
May 23	DW	RPM	1 : 500	4046-001

WATSON BATTY ARCHITECTS
Shires House, Shires Road
Guiseley, Leeds LS20 8EU
Leeds | Loughborough
T: 01943 876 665
E: enquiries@watsonbatty.com
W: www.watsonbatty.com

FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site

External Door Schedule (Block 01)

Door Ref	Type Mark	STRUCTURAL Width	STRUCTURAL Height	Door Panel - Colour	Required Clear Width	Comments
B01-ED01	EDT-04	1023	2110	Dark Grey		

Window Schedule (Block 1)

Mark	Type Mark	STRUCTURAL Width	STRUCTURAL Height	Egress Window	Safety Glazing	Obscure Glazing	Comments
L00 - Ground Floor							
B01-W01	WT-17	1473	2110				
B01-W02	WT-08	1585	1510	No	No	No	
B01-W03	WT-06	1585	1210	No	No	No	
B01-W04	WT-23	1248	1060	No	No	No	
L01 - First Floor							
B01-W06	WT-07	1585	1360	Yes	No	No	
B01-W07	WT-26	685	1135	No	No	Yes	
B01-W08	WT-03	685	1360	Yes	No	No	
B01-W09	WT-03	685	1360	Yes	No	No	
B01-W10	WT-07	1585	1360	No	No	No	
B01-W11	WT-02	685	1210	No	No	Yes	
B01-W12	WT-28	1248	1360	Yes	No	No	
B01-W13	WT-28	1248	1360	Yes	No	No	
B01-W14	WT-28	1248	1360	Yes	No	No	
B01-W15	WT-02	685	1210	No	No	Yes	
B01-W16	WT-02	685	1210	No	No	No	

Glazing and Trickle Vent Requirements

Ground Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

Wall Legend

- Below FFL External Cavity Wall:
  - 102.5mm brick outer leaf.
  - 125mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL External Cavity Wall:
  - 102.5mm brick outer leaf.
  - 125mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 12.5mm plasterboard on dabs with skim finish.
- Below FFL Separating Cavity Wall: Robust Detail: E-WM-3④
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 100mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL Separating Cavity Wall: Robust Detail: E-WM-3④
  - 12.5mm plasterboard on dabs with skim finish.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 100mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 12.5mm plasterboard on dabs with skim finish.
- Stepper Wall:
  - 215mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Load Bearing Internal Wall:
  - 12.5mm plasterboard on dabs with skim finish.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 12.5mm plasterboard on dabs with skim finish.

Key

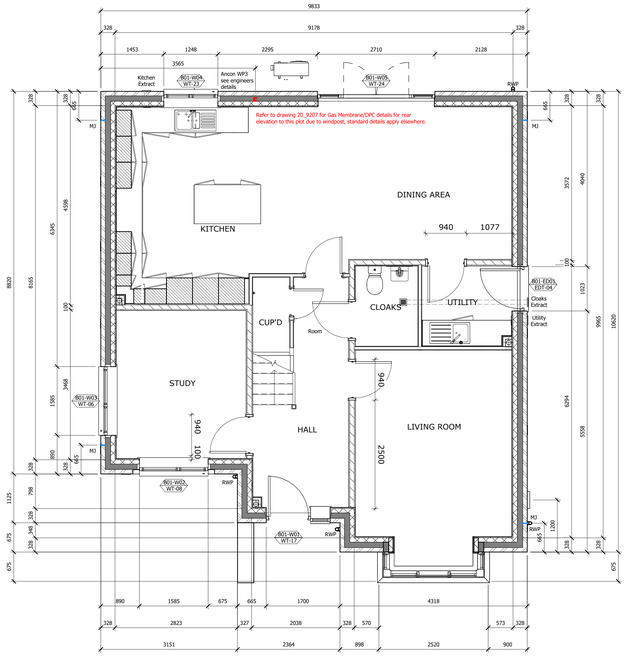
- Air Bricks
- Periscope Cavity Wall Vents
- RC lintel over airbrick adjacent to Nuspan corner joint
- Vent Axia Lo-Carbon NBR dMEV C with rigid ducts
- Vent Axia Lo-Carbon NBR dMEV C (with rigid ducts within floor void)
- Vent Axia Lo-Carbon NBR dMEV C (with rigid ducts within roof void to roof tile vent)
- Rain Water Downpipe
- SVP & Direct to Drain Connections
- Incoming Water Entry Point
- Electric Meter Box Location
- Floor Span Direction (subject to sub-contractor design drawings)
- Movement Joint Locations - (Engineers drawings takes precedence)
- 30 minute Integrity & 15 minutes Insulation Vertical Masonry Wall Cavity Barrier
- ASHP Heat Exchanger. (to be located a minimum 1m from plot boundary)
- Structural Studwork, refer to engineers drawings and specification (Engineers drawings takes precedence)
- Incoming Water
- Telecoms
- Electricity

General Notes

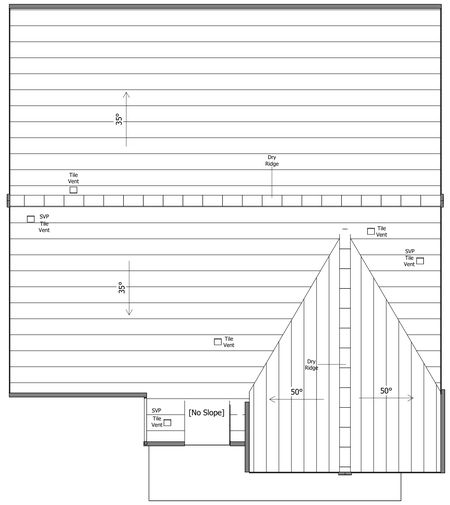
(to be read in conjunction with the structural engineering information):
- All masonry below DPC to be in accordance with BS EN 771.
- Brickwork to be durability designations F2, S2 to BS EN 998-2:2016.
- Specification for mortar for masonry, Part 2: Masonry mortar.
- All substructure blockwork to be in accordance with BS EN 1996-2:2006.
- Eurocode 6 - Design of masonry structures - Part 2: Design considerations, selection of materials and execution of masonry and NHBC technical standards.
- Blockwork to be Plasmor Aglite Ultima.
- Minimum requirements of below FFL blockwork to not be less than 1500kg/m³ or 7.3N/mm².
- Minimum requirements of above FFL blockwork to not be less than 7.3N/mm².
- Lean mix infill to be used in accordance with standards; at least 225mm below DPC level.
- For details of suspended floor see structural engineers design / specialist design.
- Refer to structural engineers drawing for foundation information. Provide compound ducts as required for water, electric & gas services.
- Foundation widths / type are indicative only. Refer to Structural Engineer's foundation design for detailed information.
- Movement Joints are structural items and details / placing to be provided by Structural Engineer.
- All substructure lintels to be 100 x 75mm pre-stressed concrete lintels. Location to be co-coordinated with individual plot drainage.
- Ensure a full block is used under the lintel bearing in accordance with the NHBC guideline (Clause 6.1.12) along with a minimum bearing for the lintel of 100mm up to 1.2m spans and 150mm over 1.2m spans.
- Refer to Structural Engineer's foundation design for detailed information.
- NHBC standards state: Chapter 5.2.10 (b) Ventilation under floor voids: Voids should be ventilated by openings providing not less than 1500mm² per metre run of the wall. Where the void is more than 500mm wide, provide a greater opening area. Ventilation openings should be provided on at least two opposite sides, where this is not possible, effective cross-ventilation from opposite sides should be provided by a combination of opening and air ducts. Ventilators should be spaces at not more than 2m centres and within 450mm of each end of any wall.
- 1200mm wide access ramp at max. 1:12 up to 900x1200mm level landing with a max. slope of 1:40 fall from flush door threshold.
- All extract fans to be system 3 dMev Fans.

Risks

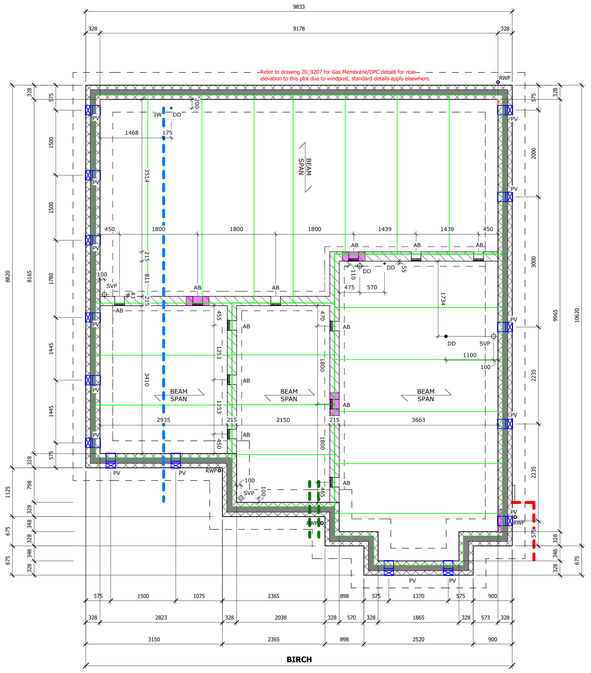
- Lifting Hazard
- Risk of Falling
- Risk of Collapse
- Risk of Falling Object
- Consideration for High Level Access
- Risk of Explosion



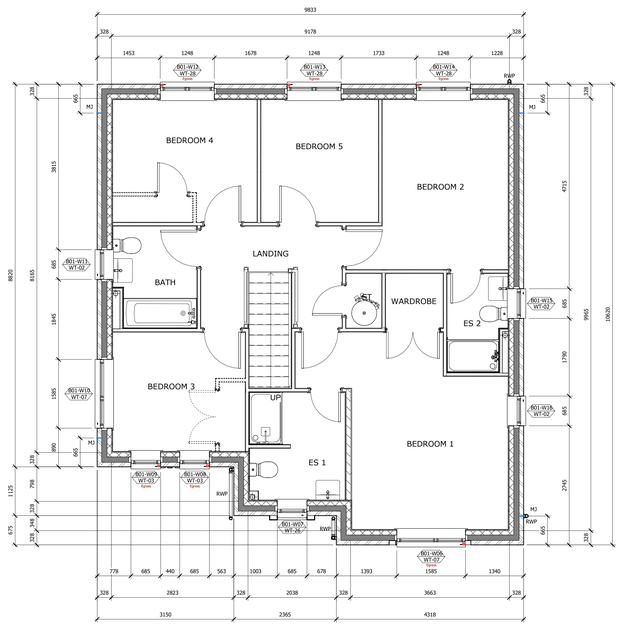
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan
1 : 50



First Floor Plan
1 : 50

Rev:	Date:	Drawn:	Checked:	Description:
P7	14.06.24	DW	AH	Substructure Updated
P6	13.05.24	DW	AH	Dims added to internal masonry to set out openings
P5	02.05.24	DW	AH	Dims to internal blockwork added.
P4	25.04.24	DW	AH	Drawings coordinated with 3rd party and engineers information.
P3	10.10.23	KK	DW	Wall Legend and spec of dMev updated.
P2	01.09.23	KK	DW	Updated to suit client comments.
P1	02.06.23	MI	DW	Floor plans added to sheets. Additional information added to substructure plans.

Suitability:
S0 Work In Progress

Hollin Gate, Littleborough

GA Block Plans - Plot 1
Block 1

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

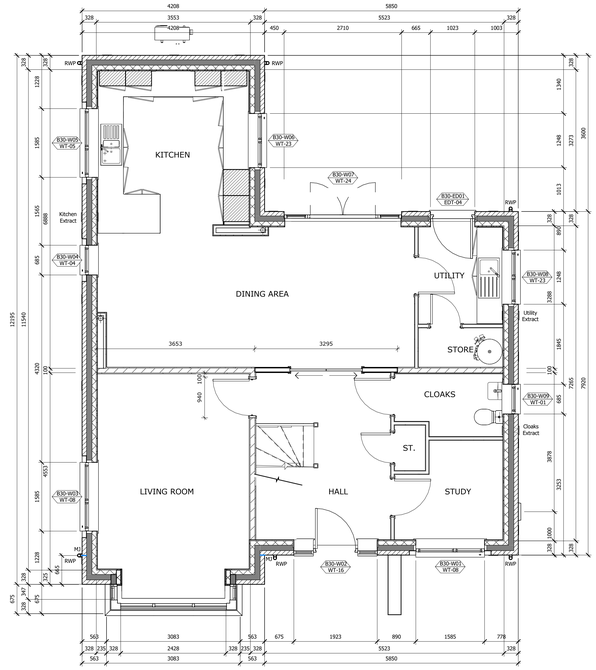
Unit Type Number	Plot	Role	Status/Number	Revision
HOLL-WBA-XX-XX-DR-A-20_2001				P7

Date:	Drawn:	Checked:	Scale @A3:	Jnt Job No:
Nov 22	MI	DW	1 : 50	4046-001

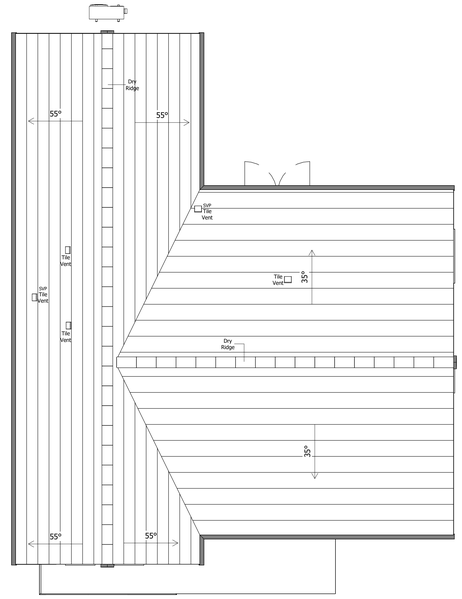
WATSON BATTY ARCHITECTS
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W: www.watsonbatty.com

FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site



Ground Floor Plan
1 : 50



Roof Plan
1 : 50

External Door Schedule (Block 30)

Door Ref	Type Mark	STRUCTURAL Width	STRUCTURAL Height	Door Panel - Colour	Required Clear Width	Comments
B30-ED01	EDT-04	1023	2110	Dark Grey		

Window Schedule (Block 30)

Mark	Type Mark	STRUCTURAL Width	STRUCTURAL Height	Egress Window	Safety Glazing	Obscure Glazing	Comments
L00 - Ground Floor							
B30-W01	WT-08	1585	1510	No	Yes	No	
B30-W02	WT-16	1923	2110	No	Yes	No	
B30-W03	WT-08	1585	1510	No	Yes	No	
B30-W04	WT-04	685	1510	No	Yes	No	
B30-W05	WT-05	1585	1960	No	No	No	
B30-W06	WT-23	1248	1210	No	No	No	
B30-W07	WT-24	2710	2110	No	Yes	No	
B30-W08	WT-23	1248	1210	No	No	No	
B30-W09	WT-01	685	1960	No	No	Yes	
L01 - First Floor							
B30-W10	WT-07	1585	1360	Yes	No	No	
B30-W11	WT-02	685	1210	No	No	No	
B30-W12	WT-03	685	1360	Yes	No	No	
B30-W13	WT-03	685	1360	Yes	No	No	
B30-W14	WT-03	685	1360	Yes	No	No	
B30-W15	WT-03	685	1360	Yes	No	No	
B30-W16	WT-02	685	1210	No	No	Yes	
B30-W17	WT-02	685	1210	No	No	Yes	
B30-W18	WT-07	1585	1360	Yes	No	No	
B30-W19	WT-25	1248	1360	Yes	No	No	
B30-W20	WT-23	1248	1210	No	No	Yes	
B30-W21	WT-25	1248	1360	Yes	No	No	
B30-W22	WT-25	1248	1360	Yes	No	No	

Glazing and Trickle Vent Requirements

Ground Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

Plot Mechnaical Ventilation Requirements - Vent Axia Cool Box System

BED 1 - 20 l/s
BED 2 - 20 l/s
BED 3 - 20 l/s
BED 4 - 20 l/s

For detail system design refer to VENT AXIA.

Wall Legend

- Below FFL External Cavity Wall: - 100mm stone outer leaf. - 125mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL External Cavity Wall: - 20mm render - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 125mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 12.5mm plasterboard on dabs with skim finish.
- Below FFL Separating Cavity Wall: Robust Detail: E-WM-3/6 - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 100mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL Separating Cavity Wall: Robust Detail: E-WM-3/6 - 12.5mm plasterboard on dabs with skim finish. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 100mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 12.5mm plasterboard on dabs with skim finish.
- Sleeper Wall: - 215mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Load Bearing Internal Wall: - 12.5mm plasterboard on dabs with skim finish. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 12.5mm plasterboard on dabs with skim finish.

Key

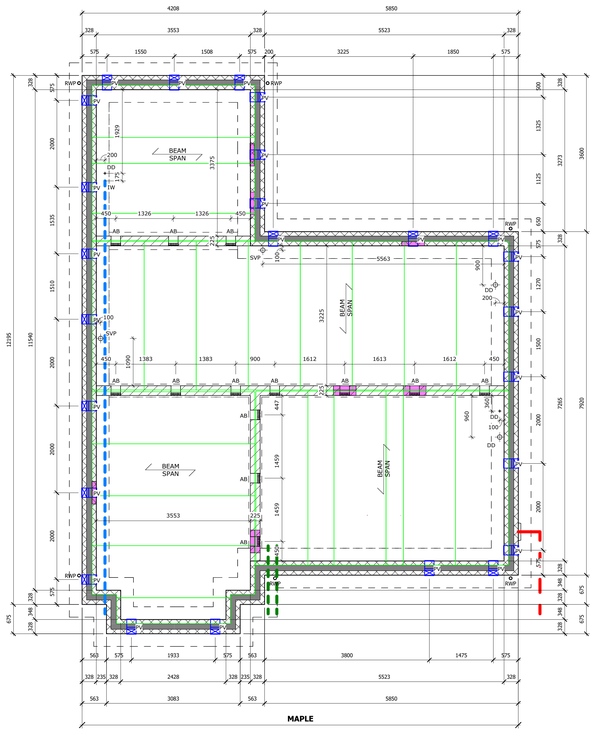
- Air Bricks
- Periscope Cavity Wall Vents
- RC lintel over airbrick adjacent to Nuspan corner joint
- Vent Axia Lo-Carbon NBR dMEV C with rigid ducts
- Vent Axia Lo-Carbon NBR dMEV C (with rigid ducts within floor void)
- Vent Axia Lo-Carbon NBR dMEV C (with rigid ducts within roof void to roof tile vent)
- Rain Water Downpipe
- SVP & Direct to Drain Connections
- Incoming Water Entry Point
- Electric Meter Box Location
- Floor Span Direction (subject to sub-contractor design drawings)
- Movement Joint Locations - (Engineers drawings takes precedence)
- 30 minute Integrity & 15 minutes Insulation Vertical Masonry Wall Cavity Barrier Structural Studwork, refer to engineers drawings and specification (Engineers drawings takes precedence)
- MVHP Heat Exchanger. (to be located a minimum 1m from plot boundary)
- Incoming Water
- Telecoms
- Electricity

General Notes

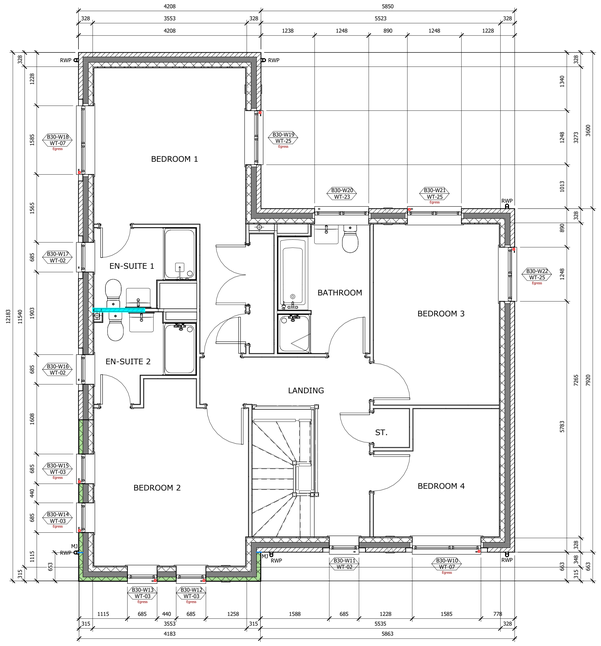
(to be read in conjunction with the structural engineering information):
- All masonry below DPC to be in accordance with BS EN 771.
- Brickwork to be durability designations F2, 52 to BS EN 998-2:2016.
- Specification for mortar for masonry, Part 2: Masonry mortar.
- All substructure blockwork to be in accordance with BS EN 1996-2:2006.
- Eurocode 6 - Design of masonry structures - Part 2: Design considerations, selection of materials and execution of masonry and NHBC technical standards.
- Blockwork to be Plasmor Aglite Ultima.
- Minimum requirements of below FFL blockwork to not be less than 1500kg/m³ or 7.2N/mm².
- Minimum requirements of above FFL blockwork to not be less than 7.3N/mm².
- Lean mix infill to be used in accordance with standards; at least 225mm below DPC level.
- For details of suspended floor see structural engineers design / specialist design.
- Refer to structural engineers drawing for foundation information. Provide underground ducts as required for water, electric & gas services.
- Foundation widths / type are indicative only. Refer to Structural Engineer's foundation design for detailed information.
- Movement Joints are structural items and details / placing to be provided by Structural Engineer.
- All substructure lintels to be 150 x 75mm pre-stressed concrete lintels. Location to be confirmed on site by individual plot drawings.
- Ensure a full block is used under the lintel bearing in accordance with the NHBC guideline (Clause 6.1.12) along with a minimum bearing for the lintel of 100mm up to 1.2m spans and 150mm over 1.2m spans.
- Refer to Structural Engineer's foundation design for detailed information.
- NHBC standards state: Chapter 5.2.10 (b) Ventilation under floor voids: Voids should be ventilated by openings providing not less than 1500mm² per metre run of external wall or 500mm² per m² of floor area, which ever gives the greater opening area. Ventilation openings should be provided on at least two opposite sides, where this is not possible, effective cross-ventilation from opposite sides should be provided by a combination of opening and air ducts. Ventilators should be spaces at not more than 2m centres and within 450mm of each end of any wall.
- 1200mm wide access ramp at max. 1:12 up to 900x1200mm level landing with a max. above of 1:40 fall from flush door threshold.
- All extract fans to be system 3 dMev Fans.

Risks

- Lifting Hazard
- Risk of Falling
- Risk of Collapse
- Risk of Falling Object
- Consideration for High Level Access
- Risk of Explosion



Substructure Plan
1 : 50



First Floor Plan
1 : 50

Rev	Date	Drawn	Checked	Description
P8	14.06.24	DW	AH	Substructure Updated
P7	13.05.24	DW	AH	Dims added to internal masonry to set out openings
P6	02.05.24	DW	AH	Dims to internal blockwork added.
P5	25.04.24	DW	AH	Drawings coordinated with 3rd party and engineers information.
P4	17.01.24	DW	JT	Vent Axia Cool Box System schedule
P3	10.10.23	KK	DW	Wall Legend and spec of dMev updated.
P2	01.09.23	KK	DW	Updated to suit client comments.
P1	02.06.23	MI	DW	Floor plans added to sheets. Additional information added to substructure plans.

Suitability: S0 — Work In Progress

Hollin Gate, Littleborough

GA Block Plans - Plot 11 Block 30

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

Unit Type	Drawing Type	Zone	Role	Status/Number	Revision
HOLL-WBA-XX-XX-DR-A-20_2011					P8

Date:	Drawn:	Checked:	Scale: @A3	Jnt Job No:
Nov 22	MI	DW	1 : 50	4046-001

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W: www.watsonbatty.com

FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site

Window Schedule (Block 28)

Mark	Type Mark	STRUCTURAL Width	Height	Egress Window	Safety Glazing	Obscure Glazing	Comments
L00 - Ground Floor							
B28-W01	WT-05	1585	1060	No	No		
B28-W02	WT-16	1923	2110	No	Yes	No	
B28-W03	WT-22	910	1210	No	No	No	
B28-W04	WT-02	685	1210	No	No	No	
B28-W05	WT-04	685	1510	No	Yes	No	
B28-W06	WT-20	1585	2110	No	Yes	No	
B28-W07	WT-24	2710	2110	No	Yes	No	
B28-W08	WT-04	685	1510	No	Yes	No	
L01 - First Floor							
B28-W09	WT-07	1585	1360	Yes	No	No	
B28-W10	WT-03	685	1360	Yes	No	No	
B28-W11	WT-03	685	1360	Yes	No	No	
B28-W12	WT-03	685	1360	Yes	No	No	
B28-W13	WT-03	685	1360	Yes	No	No	
B28-W14	WT-25	1248	1360	Yes	No	No	
B28-W15	WT-13	1248	1210	No	No	No	
B28-W16	WT-02	685	1210	No	No	Yes	
B28-W19	WT-03	685	1360	Yes	No	No	

Glazing and Trickle Vent Requirements

Ground Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

Plot Mechnaical Ventilation Requirements - Vent Axia Cool Box System

BED 1 - 20 l/s
BED 2 - 20 l/s
BED 3 - 20 l/s
BED 4 - 20 l/s

For detail system design refer to VENT AXIA.

Wall Legend

- Below FFL External Cavity Wall: - 100mm stone outer leaf. - 125mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL External Cavity Wall: - 100mm stone outer leaf. - 125mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 12.5mm plasterboard on dabs with skim finish.
- Below FFL Separating Cavity Wall: Robust Detail: E-WM-3® - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 100mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL Separating Cavity Wall: Robust Detail: E-WM-3® - 12.5mm plasterboard on dabs with skim finish. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 100mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 12.5mm plasterboard on dabs with skim finish.
- Stepper Wall: - 215mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Load Bearing Internal Wall: - 12.5mm plasterboard on dabs with skim finish. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 12.5mm plasterboard on dabs with skim finish.

Key

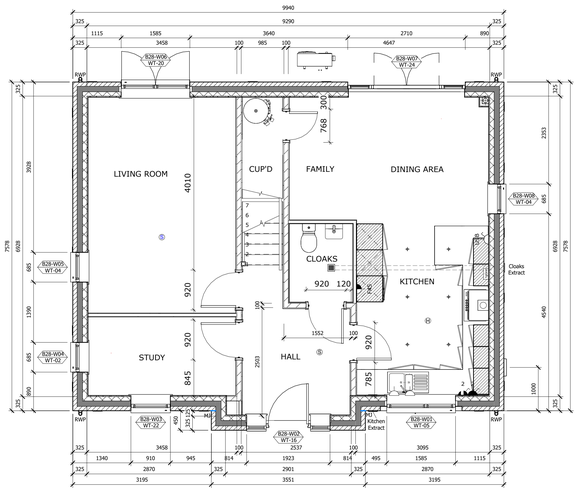
- Air Bricks
- Perisocpe Cavity Wall Vents
- RC lintel over airbrick adjacent to Nuspan corner joint
- Vent Axia Lo-Carbon NBR dMEV C with rigid ducts
- Vent Axia Lo-Carbon NBR dMEV C (with rigid ducts within floor void)
- Vent Axia Lo-Carbon NBR dMEV C (with rigid ducts within roof void to roof tile vent)
- Rain Water Downpipe
- SVP & Direct to Drain Connections
- Incoming Water Entry Point
- Electric Meter Box Location
- Floor Span Direction (subject to sub-contractor design drawings)
- Movement Joint Locations - (Engineers drawings takes precedence)
- 30 minute Integrity & 15 minutes Insulation Vertical Masonry Wall Cavity Barrer Structural Studwork, refer to engineers drawings and specification (Engineers drawings takes precedence)
- ASHP Heat Exchanger. (to be located a minimum 1m from plot boundary)
- Incoming Water
- Telecoms
- Electricity

General Notes

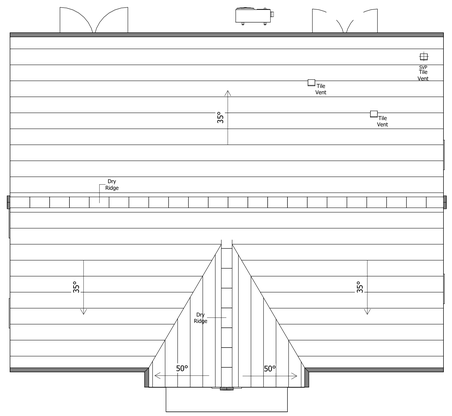
(to be read in conjunction with the structural engineering information):
- All masonry below DPC to be in accordance with BS EN 771.
- Brickwork to be durability designations F2, S2 to BS EN 998-2:2016.
- Specification for mortar for masonry, Part 2: Masonry mortar.
- All substructure blockwork to be in accordance with BS EN 1996-2:2006.
- Eurocode 6 - Design of masonry structures - Part 2: Design considerations, selection of materials and execution of masonry and NHBC technical standards.
- Blockwork to be Plasmor Aglite Ultima.
- Minimum requirements of below FFL blockwork to not be less than 1500kg/m³ or 7.3N/mm².
- Minimum requirements of above FFL blockwork to not be less than 7.3N/mm².
- Loan mix infill to be used in accordance with standards; at least 225mm below DPC level.
- For details of suspended floor see structural engineers design / specialist design.
- Refer to structural engineers drawing for foundation information. Provide compound ducts as required for water, electric & gas services.
- Foundation widths / type are indicative only. Refer to Structural Engineer's foundation design for detailed information.
- Movement Joints are structural items and details / placing to be provided by Structural Engineer.
- All substructure lintels to be 100 x 75mm pre-stressed concrete lintels. Location to be co-coordinated with individual plot drainage.
- Ensure a full block is used under the lintel bearing in accordance with the NHBC guideline (Clause 6.1.12) along with a minimum bearing for the lintel of 100mm up to 1.2m spans and 150mm over 1.2m spans.
- Refer to Structural Engineer's foundation design for detailed information.
- NHBC standards state: Chapter 5.2.10 (b) Ventilation under floor voids: Voids should be ventilated by openings providing not less than 1500mm² per metre run of opposite walls. Where the void is less than 500mm deep or the run greater opening area. Ventilation openings should be provided on at least two opposite sides, where this is not possible, effective cross-ventilation from opposite sides should be provided by a combination of opening and air ducts. Ventilators should be spaces at not more than 2m centres and within 450mm of each end of any wall.
- 1200mm wide access ramp at max. 1:12 up to 900x1200mm level landing with a max. slope of 1:40 fall from flush door threshold.
- All extract fans to be system 3 dMev Fans.

Risks

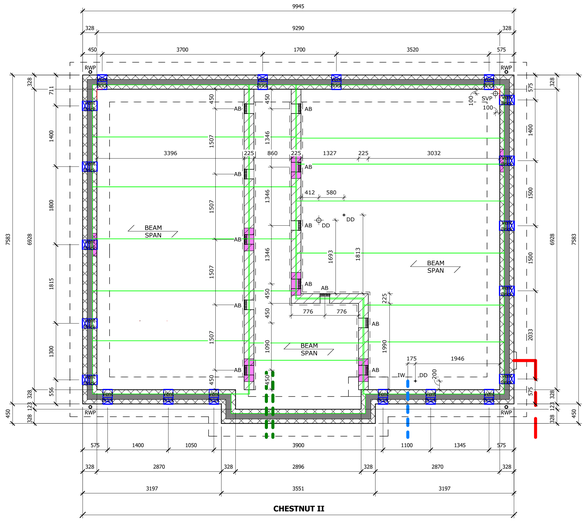
- Lifting Hazard
- Risk of Falling
- Risk of Collapse
- Risk of Falling Object
- Consideration for High Level Access
- Risk of Explosion



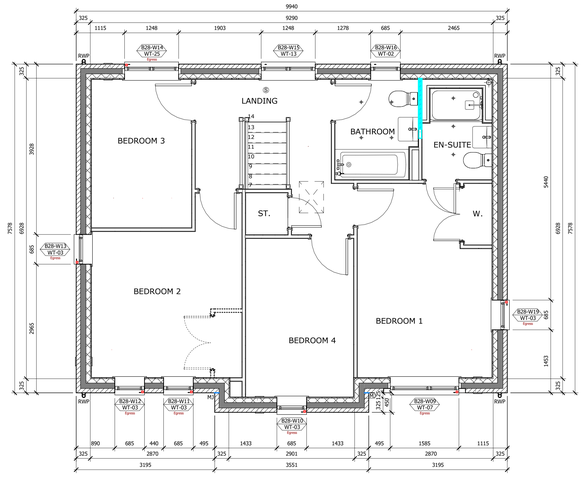
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan
1 : 50



First Floor Plan
1 : 50

P9 14.06.24 DW AH Substructure Updated
P8 13.05.24 DW AH Dims added to internal masonry to set out openings
P7 02.05.24 DW AH Dims to internal blockwork added.
P6 25.04.24 DW AH Drawings coordinated with 3rd party and engineers information.
P5 23.01.24 DW JT Movement joints added and structural stud wall location
P4 17.01.24 DW JT Vent Axia Cool Box System schedule
P3 10.10.23 KK DW Wall Legend and spec of dMev updated.
P2 01.09.23 KK DW Updated to suit client comments.
P1 02.06.23 MI DW Floor plans added to sheets. Additional information added to substructure plans.

Rev: | Date: | Drawn: | Checked: | Description:

Suitability: S0 Work In Progress

Hollin Gate, Littleborough

GA Block Plans - Plot 13 Block 28

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

Job No. | Originator | Zone | Level | Type | Role | Number | Revision:
HOLL-WBA-XX-XX-DR-A-20_2013 P9

Date: Nov 22 | Drawn: MI | Checked: DW | Scale @A3: 1 : 50 | Jrnl Job No: 4046-001

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W: www.watsonbatty.com

FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site

Window Schedule (Block 6)

Mark	Type Mark	STRUCTURAL Width	STRUCTURAL Height	Egress Window	Safety Glazing	Obscure Glazing	Comments
L00 - Ground Floor							
B06-W01	WT-08	1585	1510	No	Yes	No	
B06-W02	WT-17	1473	2110	No	Yes	No	
B06-W03	WT-22	910	1210	No	No	No	
B06-W04	WT-01	685	1060	No	No	No	
B06-W05	WT-24	2710	2110	No	Yes	No	
B06-W06	WT-05	1585	1060	No	No	No	
B06-W07	WT-03	685	1360	No	Yes	No	
L01 - First Floor							
B06-W08	WT-07	1585	1360	Yes	No	No	
B06-W09	WT-07	1585	1360	Yes	No	No	
B06-W10	WT-02	685	1210	No	No	Yes	
B06-W11	WT-11	1585	1360	Yes	No	No	
B06-W12	WT-11	1585	1360	Yes	No	No	
B06-W13	WT-02	685	1210	No	No	Yes	

Glazing and Trickle Vent Requirements

Ground Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

Wall Legend

- Below FFL External Cavity Wall:
  - 100mm stone outer leaf.
  - 125mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL External Cavity Wall:
  - 100mm stone outer leaf.
  - 125mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 12.5mm plasterboard on dabs with skim finish.
- Below FFL Separating Cavity Wall: Robust Detail: E-WM-3/8
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 100mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL Separating Cavity Wall: Robust Detail: E-WM-3/8
  - 12.5mm plasterboard on dabs with skim finish.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 100mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 12.5mm plasterboard on dabs with skim finish.
- Sleeper Wall:
  - 215mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Load Bearing Internal Wall:
  - 12.5mm plasterboard on dabs with skim finish.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 12.5mm plasterboard on dabs with skim finish.

Key

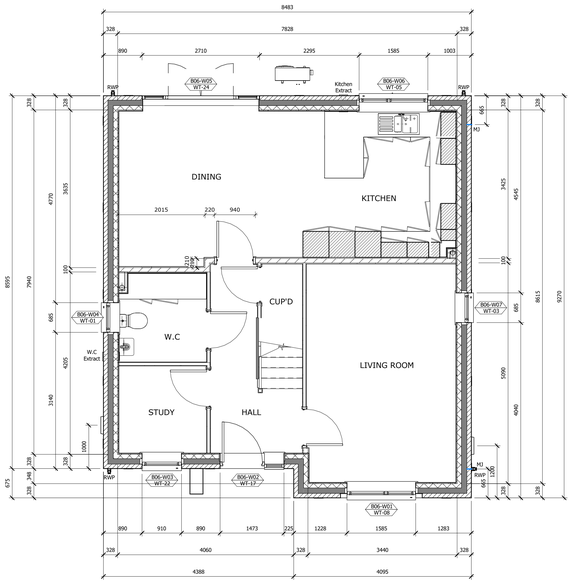
- Air Bricks
- Periscope Cavity Wall Vents
- RC lintel over airbrick adjacent to Nuspan corner joint
- Vent Axia Lo-Carbon NBR i/MEV C with rigid ducts
- Vent Axia Lo-Carbon NBR i/MEV C (with rigid ducts within floor void)
- Vent Axia Lo-Carbon NBR i/MEV C (with rigid ducts within roof void to roof tile vent)
- Rain Water Downpipe
- SVP & Direct to Drain Connections
- Incoming Water Entry Point
- Electric Meter Box Location
- Floor Span Direction (subject to sub-contractor design drawings)
- Movement Joint Locations - (Engineers drawings takes precedence)
- 30 minute Integrity & 15 minutes Insulation Vertical Masonry Wall Cavity Barrier Structural Studwork, refer to engineers drawings and specification (Engineers drawings takes precedence)
- ASHP Heat Exchanger. (to be located a minimum 1m from plot boundary)
- Incoming Water
- Telecoms
- Electricity

General Notes

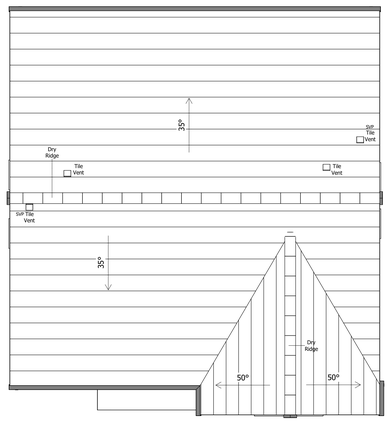
(to be read in conjunction with the structural engineering information):
- All masonry below DPC to be in accordance with BS EN 771.
- Brickwork to be durability designations F2, S2 to BS EN 998-2:2016.
- Specification for mortar for masonry, Part 2: Masonry mortar.
- All substructure blockwork to be in accordance with BS EN 1996-2:2006.
- Eurocode 6 - Design of masonry structures - Part 2: Design considerations, selection of materials and execution of masonry and NHBC technical standards.
- Blockwork to be Plasmor Aglite Ultima.
- Minimum requirements of below FFL blockwork to not be less than 1500kg/m³ or 7.3N/mm².
- Minimum requirements of above FFL blockwork to not be less than 7.3N/mm².
- Lean mix infill to be used in accordance with standards; at least 225mm below DPC level.
- For details of suspended floor see structural engineers design / specialist design.
- Refer to structural engineers drawing for foundation information. Provide underground ducts as required for water, electric & gas services.
- Foundation widths / type are indicative only. Refer to Structural Engineer's foundation design for detailed information.
- Movement Joints are structural items and details / placing to be provided by Structural Engineer.
- All substructure lintels to be 100 x 75mm pre-stressed concrete lintels. Location to be co-coordinated with individual plot drainage.
- Ensure a full block is used under the lintel bearing in accordance with the NHBC guideline (Clause 6.1.12) along with a minimum bearing for the lintel of 100mm up to 1.2m spans and 150mm over 1.2m spans.
- Refer to Structural Engineer's foundation design for detailed information.
- NHBC standards state: Chapter 5.2.10 (b) Ventilation under floor voids:
  Voids should be ventilated by openings providing not less than 1500mm² per metre run of the wall. Where the void is more than 500mm deep, or the run is more than 6m, greater opening area. Ventilation openings should be provided on at least two opposite sides, where this is not possible, effective cross-ventilation from opposite sides should be provided by a combination of opening and air ducts. Ventilators should be spaces at not more than 2m centres and within 450mm of each end of any wall.
- 1200mm wide access ramp at max. 1:12 up to 900x1200mm level landing with a max. slope of 1:40 fall from flush door threshold.
- All extract fans to be system 3 dMev Fans.

Risks

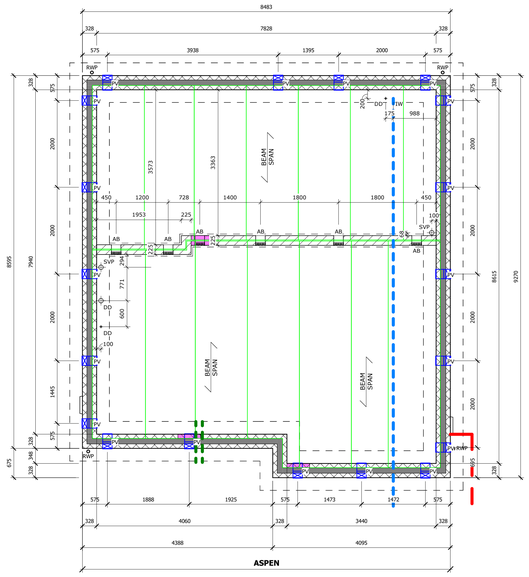
- Lifting Hazard
- Risk of Falling
- Risk of Collapse
- Risk of Falling Object
- Consideration for High Level Access
- Risk of Explosion



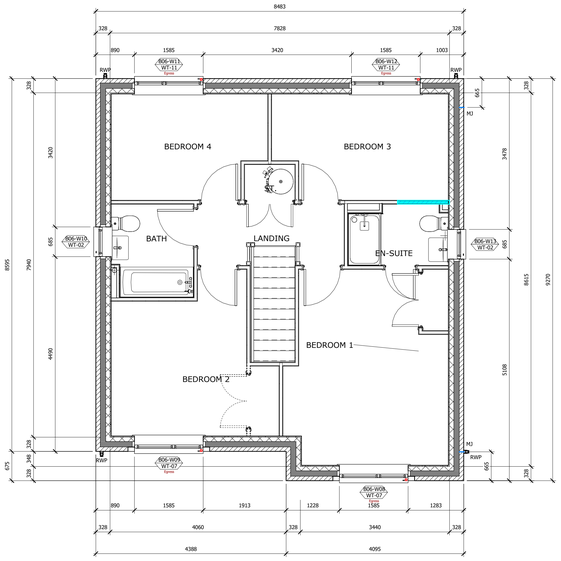
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan
1 : 50



First Floor Plan
1 : 50

Rev	Date	Drawn	Checked	Description
P8	14.06.24	DW	AH	Substructure Updated
P7	14.05.24	DW	AH	Lintels shown to airbricks where required.
P6	13.05.24	DW	AH	Dims added to internal masonry to set out openings
P5	02.05.24	DW	AH	Dims to internal blockwork added.
P4	25.04.24	DW	AH	Drawings coordinated with 3rd party and engineers information.
P3	10.10.23	KK	DW	Wall Legend and spec of dMev updated.
P2	01.09.23	KK	DW	Updated to suit client comments.
P1	02.06.23	MI	DW	Floor plans added to sheets. Additional information added to substructure plans.

Suitability:
S0 Work In Progress

Hollin Gate, Littleborough

GA Block Plans - Plot 28
Block 6

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

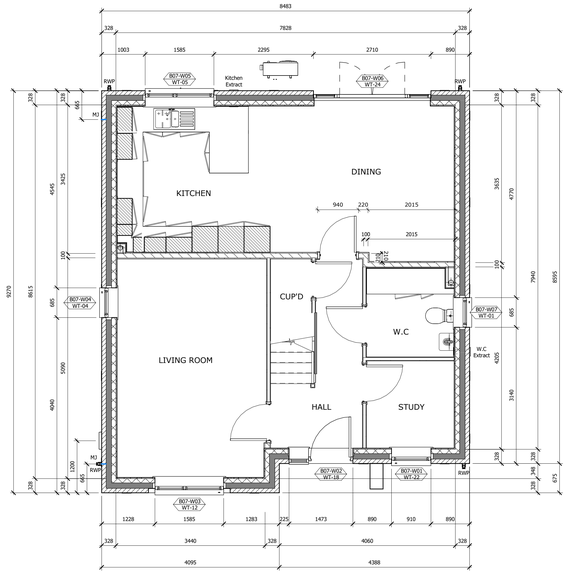
Originator	Zone / Level	Type	Role	Group/Number	Revision
HOLL-WBA-XX-XX-DR-A-20_2025					P8

Date:	Drawn:	Checked:	Scale @A0	1nt Job No:
Nov 22	MI	DW	1 : 50	4046-001

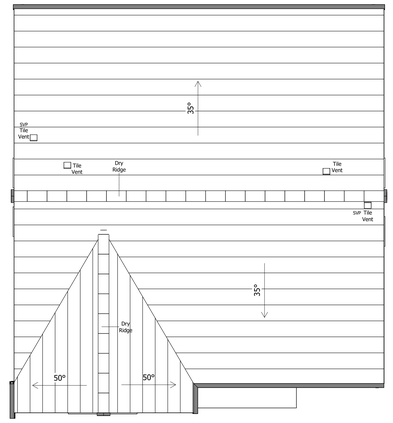
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FUTURE BUILT

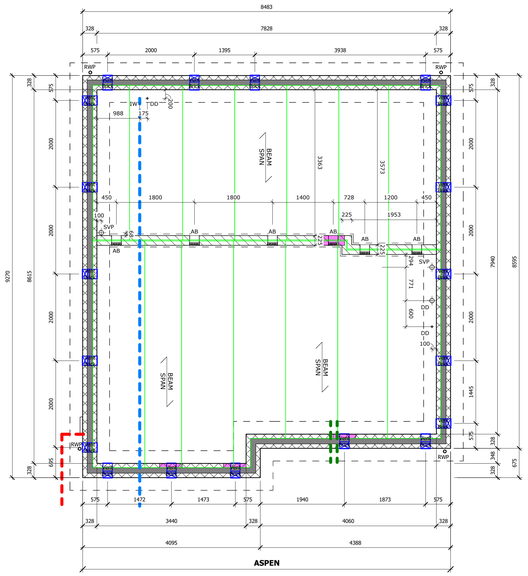
Note: Do not Scale from this drawing. All dimensions to be checked on site



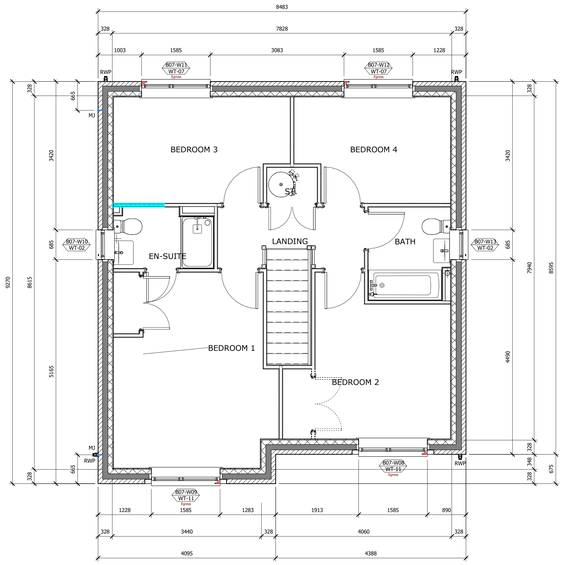
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan
1 : 50



First Floor Plan
1 : 50

Window Schedule (Block 7)

Mark	Type Mark	STRUCTURAL Width	Height	Egress Window	Safety Glazing	Obscure Glazing	Comments
L00 - Ground Floor							
B07-W01	WT-22	910	1210	No	No		
B07-W02	WT-18	1473	2110	No	Yes	No	
B07-W03	WT-12	1585	1510	No	Yes	No	
B07-W04	WT-04	685	1510	No	Yes		
B07-W05	WT-05	1585	1060	No	No	No	
B07-W06	WT-24	2710	2115	No	Yes	No	
B07-W07	WT-01	685	1060	No	No	Yes	
L01 - First Floor							
B07-W08	WT-11	1585	1360	Yes	No	No	
B07-W09	WT-11	1585	1360	Yes	No	No	
B07-W10	WT-02	685	1210	No	No	Yes	
B07-W11	WT-07	1585	1360	Yes	No	No	
B07-W12	WT-07	1585	1360	Yes	No	No	
B07-W13	WT-02	685	1210	No	No	Yes	

Glazing and Trickle Vent Requirements

Ground Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

Wall Legend

- Below FFL External Cavity Wall: - 100mm stone outer leaf. - 125mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL External Cavity Wall: - 100mm stone outer leaf. - 125mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 12.5mm plasterboard on dabs with skim finish.
- Below FFL Separating Cavity Wall: Robust Detail: E-WM-3/8 - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 100mm cavity fully filled with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL Separating Cavity Wall: Robust Detail: E-WM-3/8 - 12.5mm plasterboard on dabs with skim finish. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 100mm cavity fully with insulation. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 12.5mm plasterboard on dabs with skim finish.
- Stepper Wall: - 215mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Load Bearing Internal Wall: - 12.5mm plasterboard on dabs with skim finish. - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork. - 12.5mm plasterboard on dabs with skim finish.

Key

- Air Bricks
- Perisope Cavity Wall Vents
- RC lintel over airbrick adjacent to Nuspan corner joint
- Vent Axia Lo-Carbon NBR dMEV C with rigid ducts
- Vent Axia Lo-Carbon NBR dMEV C (with rigid ducts within floor void)
- Vent Axia Lo-Carbon NBR dMEV C (with rigid ducts within roof void to roof tile vent)
- Rain Water Downpipe
- SVP & Direct to Drain Connections
- Incoming Water Entry Point
- Electric Meter Box Location
- Floor Span Direction (subject to sub-contractor design drawings)
- Movement Joint Locations - (Engineers drawings takes precedence)
- 30 minute Integrity & 15 minutes Insulation Vertical Masonry Wall Cavity Barrier Structural Studwork, refer to engineers drawings and specification (Engineers drawings takes precedence)
- ASHP Heat Exchanger. (to be located a minimum 1m from plot boundary)
- Incoming Water
- Telecoms
- Electricity

General Notes

(to be read in conjunction with the structural engineering information):
- All masonry below DPC to be in accordance with BS EN 771.
- Brickwork to be durability designations F1, S2 to BS EN 998-2:2016.
- Specification for mortar for masonry, Part 2: Masonry mortar.
- All substructure blockwork to be in accordance with BS EN 1996-2:2006.
- Eurocode 6 - Design of masonry structures - Part 2: Design considerations, selection of materials and execution of masonry and NHBC technical standards.
- Blockwork to be Plasmor Aglite Ultima.
- Minimum requirements of below FFL blockwork to not be less than 1500kg/m³ or 7.3N/mm².
- Minimum requirements of above FFL blockwork to not be less than 7.3N/mm².
- Lean mix infill to be used in accordance with standards; at least 225mm below DPC level.
- For details of suspended floor see structural engineers design / specialist design.
- Refer to structural engineers drawing for foundation information. Provide underground ducts as required for water, electric & gas services.
- Foundation widths / type are indicative only. Refer to Structural Engineer's foundation design for detailed information.
- Movement Joints are structural items and details / placing to be provided by Structural Engineer.
- All substructure lintels to be 100 x 75mm pre-stressed concrete lintels. Location to be co-coordinated with individual plot drainage.
- Ensure a full block is used under the lintel bearing in accordance with the NHBC guideline (Clause 6.1.12) along with a minimum bearing for the lintel of 100mm up to 1.2m spans and 150mm over 1.2m spans.
- Refer to Structural Engineer's foundation design for detailed information.
- NHBC standards state: Chapter 5.2.10 (b) Ventilation under floor voids: Voids should be ventilated by openings providing not less than 1500mm² per metre run of the wall. Where the void is more than 500mm deep, provide a further greater opening area. Ventilation openings should be provided on at least two opposite sides, where this is not possible, effective cross-ventilation from opposite sides should be provided by a combination of opening and air ducts. Ventilators should be spaces at not more than 2m centres and within 450mm of each end of any wall.
- 1200mm wide access ramp at max. 1:12 up to 900x1200mm level landing with a max. slope of 1:40 fall from flush door threshold.
- All extract fans to be system 3 dMev Fans.

Risks

- Lifting Hazard
- Risk of Falling
- Risk of Collapse
- Risk of Falling Object
- Consideration for High Level Access
- Risk of Explosion

Rev	Date	Drawn	Checked	Description
P8	14.06.24	DW	AH	Substructure Updated
P7	14.05.24	DW	AH	Lintels shown to airbricks where required.
P6	13.05.24	DW	AH	Dims added to internal masonry to set out openings
P5	02.05.24	DW	AH	Dims to internal blockwork added.
P4	25.04.24	DW	AH	Drawings coordinated with 3rd party and engineers information.
P3	10.10.23	KK	DW	Wall Legend and spec of dMev updated.
P2	01.09.23	KK	DW	Updated to suit client comments.
P1	02.06.23	MI	DW	Floor plans added to sheets. Additional information added to substructure plans.

Suitability: S0 — Work In Progress

Hollin Gate, Littleborough

GA Block Plans - Plot 29
Block 7

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

Unit Type Number	Rev
HOLL-WBA-XX-XX-DR-A-20_2026	P8

Date:	Drawn:	Checked:	Scale @A3:	Jnt Job No:
Nov 22	MI	DW	1 : 50	4046-001

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W: www.watsonbatty.com

FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site

External Door Schedule (Block 14)

Door Ref	Type Mark	STRUCTURAL Width	STRUCTURAL Height	Door Panel - Colour	Required Clear Width	Comments
B14-ED01	EDT-04	1023	2110	Dark Grey		

Window Schedule (Block 14)

Mark	Type Mark	STRUCTURAL Width	STRUCTURAL Height	Egress Window	Safety Glazing	Obscure Glazing	Comments
L00 - Ground Floor							
B14-W01	WT-08	1585	1510	No	Yes	No	
B14-W02	WT-18	1473	2110	No	Yes	No	
B14-W03	WT-08	1585	1510	No	Yes	No	
B14-W04	WT-04	685	1510	No	Yes	No	
B14-W05	WT-19	1473	2110	No	Yes	No	
B14-W06	WT-04	685	1510	No	No	Yes	
B14-W07	WT-09	1585	1060	No	No	No	
B14-W08	WT-12	1585	1510	No	Yes	No	
L01 - First Floor							
B14-W09	WT-02	685	1210	No	No	No	
B14-W10	WT-02	685	1210	No	No	Yes	
B14-W11	WT-07	1585	1360	Yes	No	No	
B14-W12	WT-02	685	1210	No	No	No	
B14-W13	WT-02	685	1210	No	No	Yes	
B14-W14	WT-02	685	1210	No	No	Yes	
B14-W15	WT-02	685	1210	No	No	Yes	
B14-W16	WT-11	1585	1360	Yes	No	No	
B14-W17	WT-03	685	1360	Yes	No	No	
B14-W18	WT-03	685	1360	Yes	No	No	

Glazing and Trickle Vent Requirements

Ground Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

Plot Mechnaical Ventilation Requirements - Vent Axia Cool Box System

BED 1 - 30 l/s

For detail system design refer to VENT AXIA.

Wall Legend

- Below FFL External Cavity Wall:
  - 102.5mm brick outer leaf.
  - 125mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL External Cavity Wall:
  - 102.5mm brick outer leaf.
  - 125mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 12.5mm plasterboard on dabs with skim finish.
- Below FFL Separating Cavity Wall: Robust Detail: E-WM-3④
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 100mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Above FFL Separating Cavity Wall: Robust Detail: E-WM-3④
  - 12.5mm plasterboard on dabs with skim finish.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 100mm cavity fully filled with insulation.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 12.5mm plasterboard on dabs with skim finish.
- Sleeper Wall:
  - 215mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
- Load Bearing Internal Wall:
  - 12.5mm plasterboard on dabs with skim finish.
  - 100mm thick 7.3n/mm² Standard Plasmor Aglite Ultima blockwork.
  - 12.5mm plasterboard on dabs with skim finish.

Key

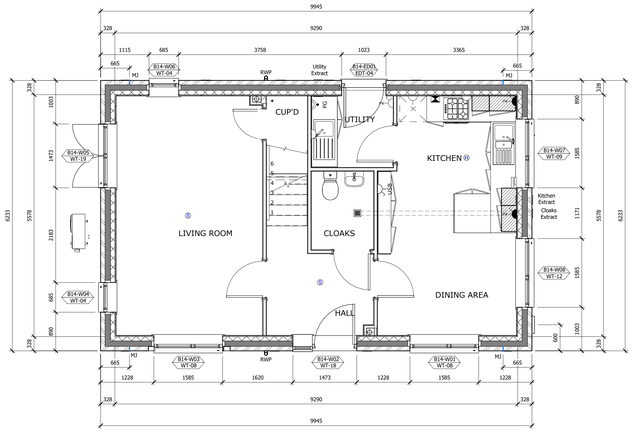
- Air Bricks
- Periscope Cavity Wall Vents
- RC lintel over airbrick adjacent to Nuspan corner joint
- Vent Axia Lo-Carbon NBR iMEV C with rigid ducts
- Vent Axia Lo-Carbon NBR iMEV C (with rigid ducts within floor void)
- Vent Axia Lo-Carbon NBR iMEV C (with rigid ducts within roof void to roof tile vent)
- Rain Water Downpipe
- SVP & Direct to Drain Connections
- Incoming Water Entry Point
- Electric Meter Box Location
- Floor Span Direction (subject to sub-contractor design drawings)
- Movement Joint Locations - (Engineers drawings takes precedence)
- 30 minute Integrity & 15 minutes Insulation Vertical Masonry Wall Cavity Barrier
- ASHP Heat Exchanger. (to be located a minimum 1m from plot boundary)
- Structural Studwork, refer to engineers drawings and specification (Engineers drawings takes precedence)
- Incoming Water
- Telecoms
- Electricity

General Notes

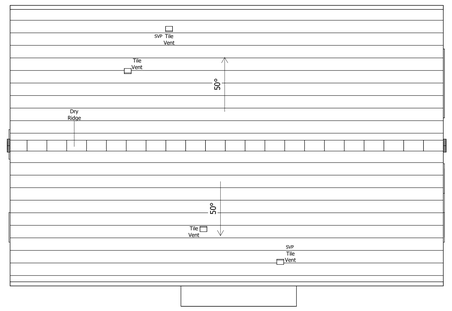
(to be read in conjunction with the structural engineering information):
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- Minimum requirements of below FFL blockwork to not be less than 1500kg/m³ or 7.3N/mm².
- Minimum requirements of above FFL blockwork to not be less than 7.3N/mm².
- Lean mix infill to be used in accordance with standards; at least 225mm below DPC level.
- For details of suspended floor see structural engineers design / specialist design.
- Refer to structural engineers drawing for foundation information. Provide underground ducts as required for water, electric & gas services.
- Foundation widths / type are indicative only. Refer to Structural Engineer's foundation design for detailed information.
- Movement Joints are structural items and details / placing to be provided by Structural Engineer.
- All substructure lintels to be 100 x 75mm pre-stressed concrete lintels. Location to be co-coordinated with individual plot drainage.
- Ensure a full block is used under the lintel bearing in accordance with the NHBC guideline (Clause 6.1.12) along with a minimum bearing for the lintel of 100mm up to 1.2m spans and 150mm over 1.2m spans.
- Refer to Structural Engineer's foundation design for detailed information.
- NHBC standards state: Chapter 5.2.10 (b) Ventilation under floor voids: Voids should be ventilated by openings providing not less than 1500mm² per metre run of the wall. Where the void is more than 500mm deep or the run is more than 6m greater opening area. Ventilation openings should be provided on at least two opposite sides, where this is not possible, effective cross-ventilation from opposite sides should be provided by a combination of opening and air ducts. Ventilators should be spaces at not more than 2m centres and within 450mm of each end of any wall.
- 1200mm wide access ramp at max. 1:12 up to 900x1200mm level landing with a max. slope of 1:40 fall from flush door threshold.
- All extract fans to be system 3 dMev Fans.

Risks

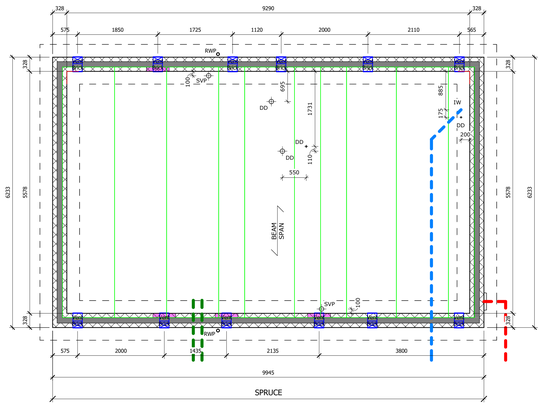
- Lifting Hazard
- Risk of Falling
- Risk of Collapse
- Risk of Falling Object
- Consideration for High Level Access
- Risk of Explosion



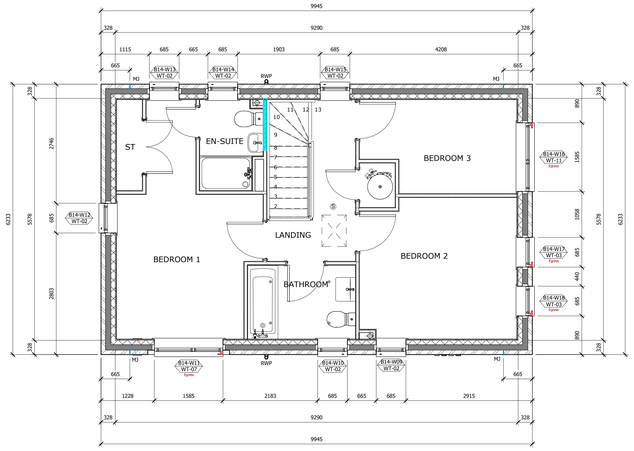
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan
1 : 50



First Floor Plan
1 : 50

P6	14.06.24	DW	AH	Substructure Updated
P5	25.04.24	DW	AH	Drawings coordinated with 3rd party and engineers information.
P4	17.01.24	DW	JT	Vent Axia Cool Box System schedule
P3	10.10.23	KK	DW	Wall Legend and spec of dMev updated.
P2	01.09.23	KK	DW	Updated to suit client comments.
P1	02.06.23	MI	DW	Floor plans added to sheets. Additional information added to substructure plans.

Rev: | Date: | Drawn: | Checked: | Description:

Suitability: S0 Work In Progress

Hollin Gate, Littleborough

GA Block Plans - Plot 43 Block 14

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

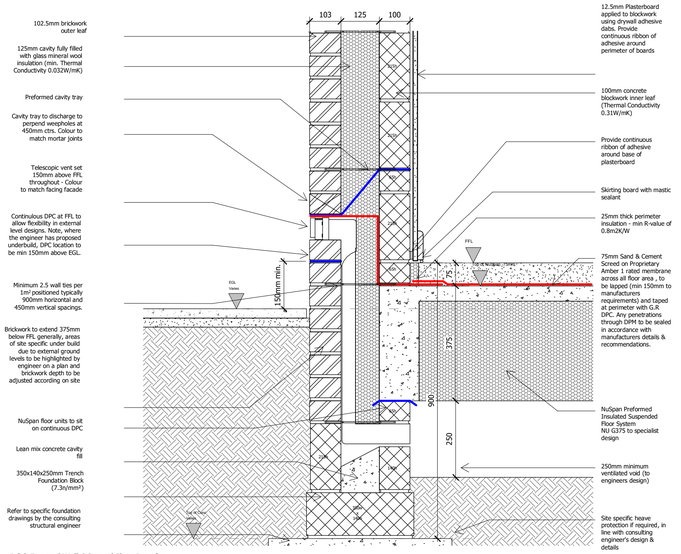
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HOLL-WBA-XX-XX-DR-A-20_2038							P6

Date:	Drawn:	Checked:	Scale: @A3	Int. Job No:
Nov 22	MI	DW	1 : 50	4046-001

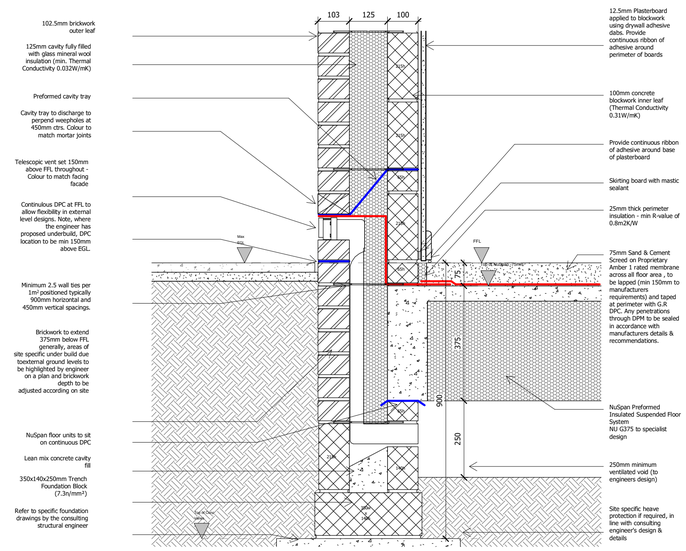
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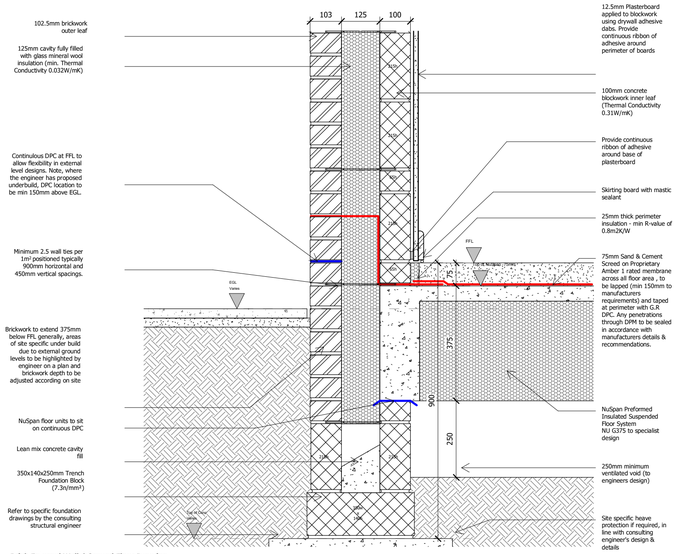
Note: Do not Scale from this drawing. All dimensions to be checked on site



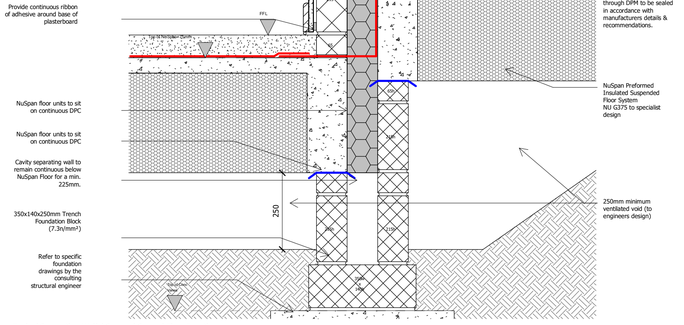
Brick External Wall / Ground Floor Junction
External Ground Level -150



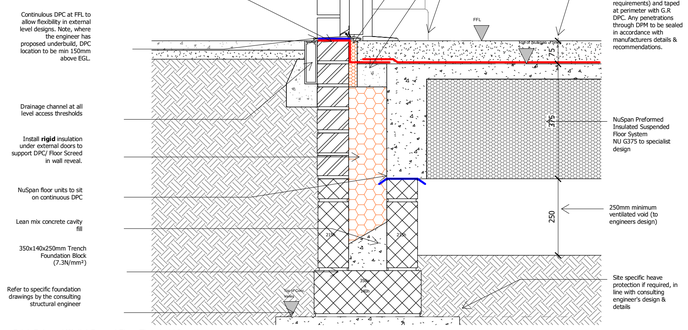
Brick External Wall / Ground Floor Junction
Max External Ground Level



Brick External Wall / Ground Floor Junction
External Ground Level -150



Separating Wall / Ground Floor Junction
Robust Detail E-WM-34



Brick External Wall / Ground Floor Threshold Junction
Level Access Principle Entrance Doors

Brick External Wall / Ground Floor Threshold Junction
Patio Doors

Typical Separating Wall / Stepped Ground Floor Junction
Robust Detail - E-WM-34

TARGET U-VALUES

External Wall: Brick & Render on Blockwork - 0.21w/m²k
Stone - 0.22w/m²k

Cavity Wall to Garage Wall: 0.20w/m²k

Wall to Garage: 0.34w/m²k

Dormer Wall: 0.26w/m²k

Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)

Ground Floor: 0.11w/m²k

Floor above Garage: 0.15w/m²k

Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)

Roof - Insulated Ceiling: 0.08w/m²k

Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k

Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k

Dormer Flat Roof: 0.16w/m²k

Porch Flat Roof: 0.16w/m²k

Front Entrance Door: 1.10w/m²k

Rear / Side Entrance Door: 1.20w/m²k

Windows: 1.20w/m²k

Patio Doors: 1.30w/m²k

Roof Windows: 1.30w/m²k

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

Rev:	Date:	Drawn:	Checked:	Description:
P4	17.11.23	DW	AH	Revised following client comments
P3	08.11.23	DW	AH	TOC-FFL updated to 900mm
P2	09.10.23	DW	AH	Revised following client comments
P1	29.06.23	DW	RJ	Extra details added

Suitability:
S0 Work In Progress

Hollin Gate, Littleborough

Assembly Details - Brick - Sheet 1

Location:
Hollingworth Road
Littleborough

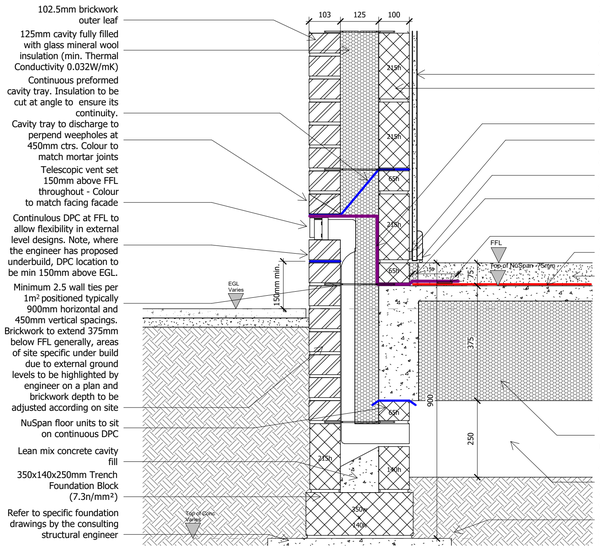
Client:
Countryside Partnerships

UPRN	Originator	Zone	Level	Type	Role	Series/Number	Revision:
HOLL-WBA-XX-XX-DR-A-20_9001							P4

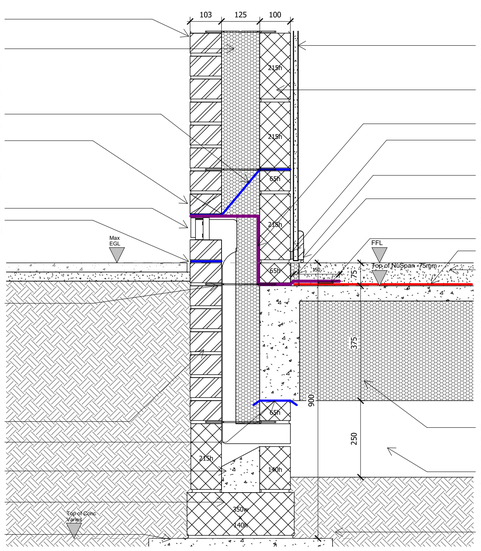
Date:	Drawn:	Checked:	Scale: @A1	Int Job No:
May 23	WMB	RJ	As indicated	4046-001

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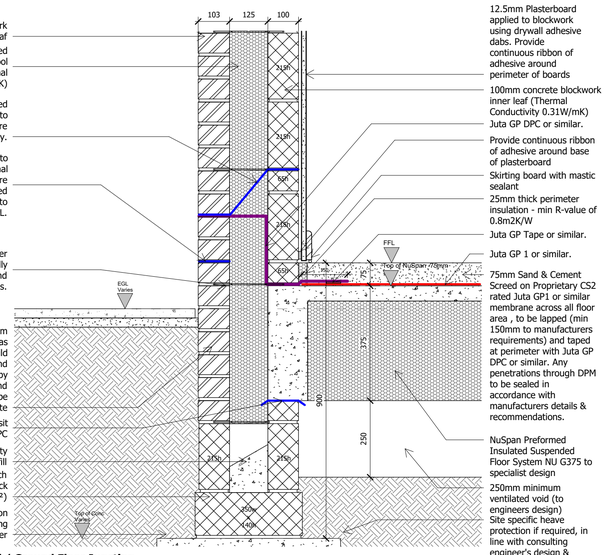
Note: Do not Scale from this drawing. All dimensions to be checked on site



Brick External Wall / Ground Floor Junction
External Ground Level -150

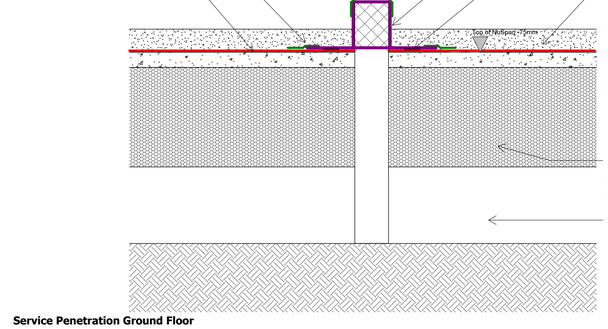


Brick External Wall / Ground Floor Junction
Max External Ground Level



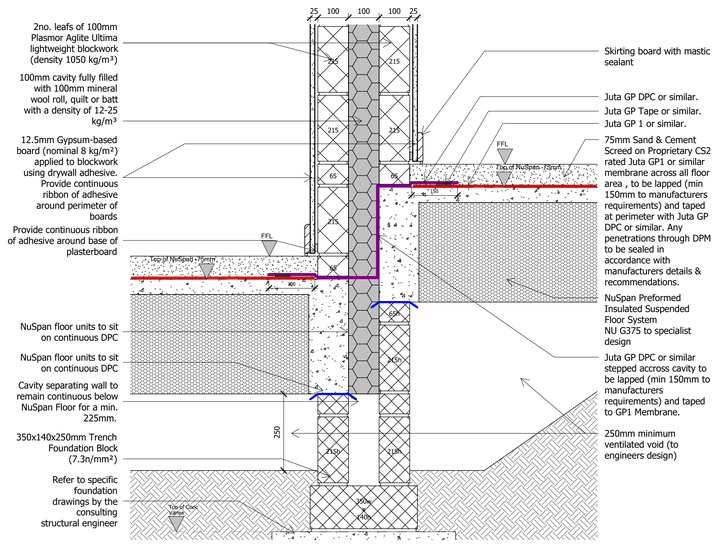
Brick External Wall / Ground Floor Junction
External Ground Level -150

Separating Wall / Ground Floor Junction
Robust Detail E-WM-34



Brick External Wall / Ground Floor Threshold Junction
Level Access Principle Entrance Doors

Brick External Wall / Ground Floor Threshold Junction
Patio Doors



Typical Separating Wall / Stepped Ground Floor Junction
Robust Detail - E-WM-34

Service Penetration Ground Floor

TARGET U-VALUES

External Wall: Brick & Render on Blockwork - 0.21w/m²k
Stone - 0.22w/m²k

Cavity Wall to Garage Wall: 0.20w/m²k

Wall to Garage: 0.34w/m²k

Dormer Wall: 0.26w/m²k

Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)

Ground Floor: 0.11w/m²k

Floor above Garage: 0.15w/m²k

Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)

Roof - Insulated Ceiling: 0.08w/m²k

Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k

Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k

Dormer Flat Roof: 0.16w/m²k

Porch Flat Roof: 0.16w/m²k

Front Entrance Door: 1.10w/m²k

Rear / Side Entrance Door: 1.20w/m²k

Windows: 1.20w/m²k

Patio Doors: 1.30w/m²k

Roof Windows: 1.30w/m²k

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

Rev:	Date:	Drawn:	Checked:	Description:
P5	07.06.24	DW	AH	Updated with Juta Gas membrane
P4	17.11.23	DW	AH	Revised following client comments
P3	08.11.23	DW	AH	TOC-FFL updated to 900mm
P2	09.10.23	DW	AH	Revised following client comments
P1	29.06.23	DW	RJ	Extra details added

Suitability: S0 Work In Progress

Hollin Gate, Littleborough

Assembly Details - Brick - Sheet 1

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

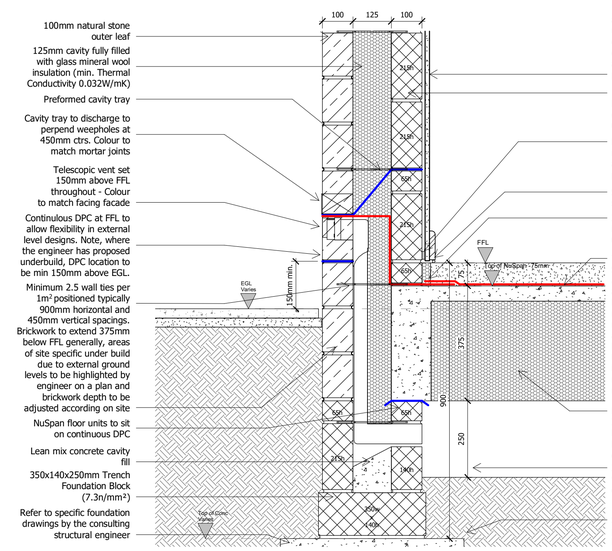
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HOLL-WBA-XX-XX-DR-A-20_9001							P5

Date:	Drawn:	Checked:	Scale: @A1	Int Job No:
May 23	WMB	RJ	As indicated	4046-001

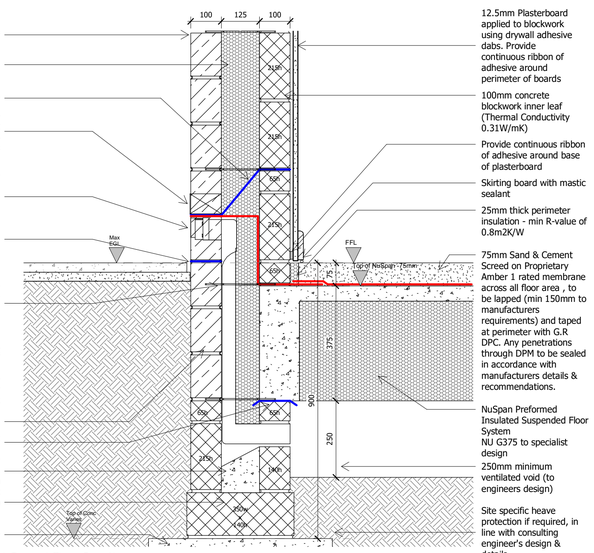
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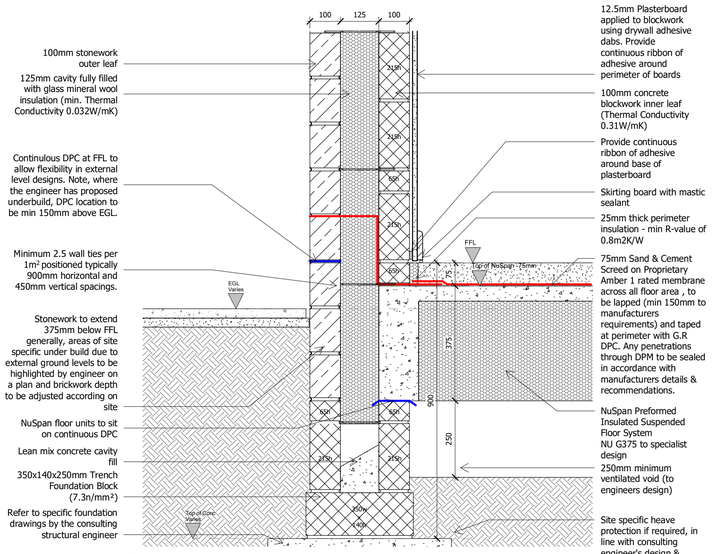
Note: Do not Scale from this drawing. All dimensions to be checked on site



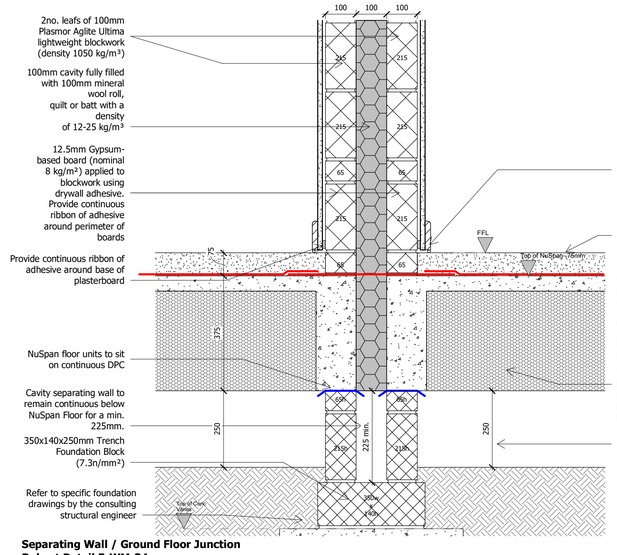
Stone External Wall / Ground Floor Junction
External Ground Level -150



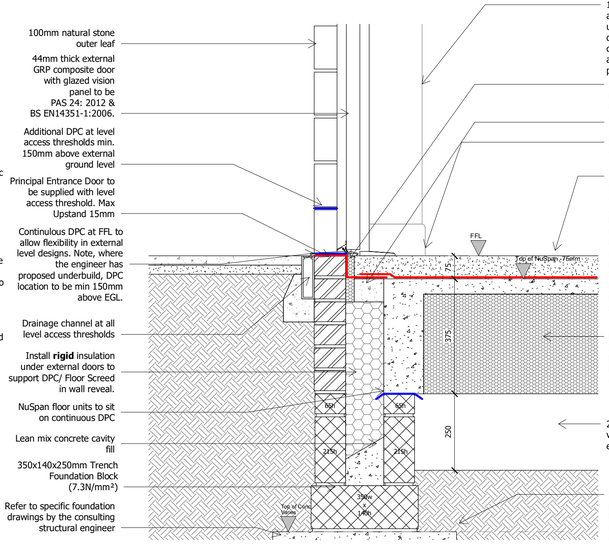
Stone External Wall / Ground Floor Junction
Max External Ground Level



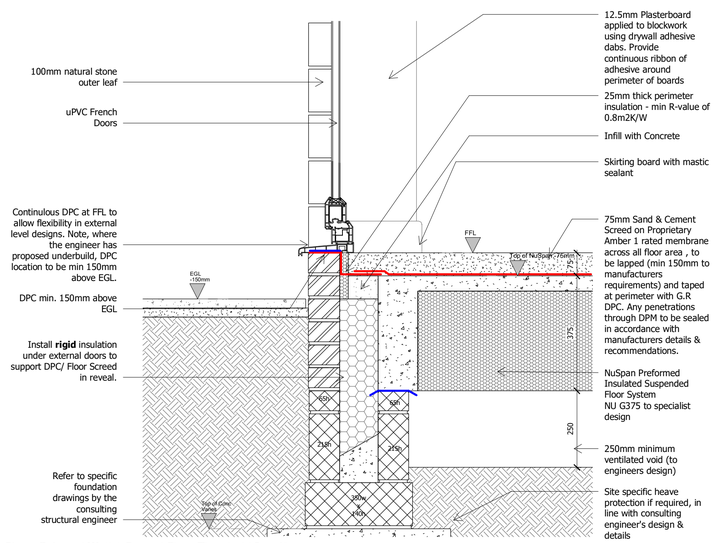
Stone External Wall / Ground Floor Junction
External Ground Level -150



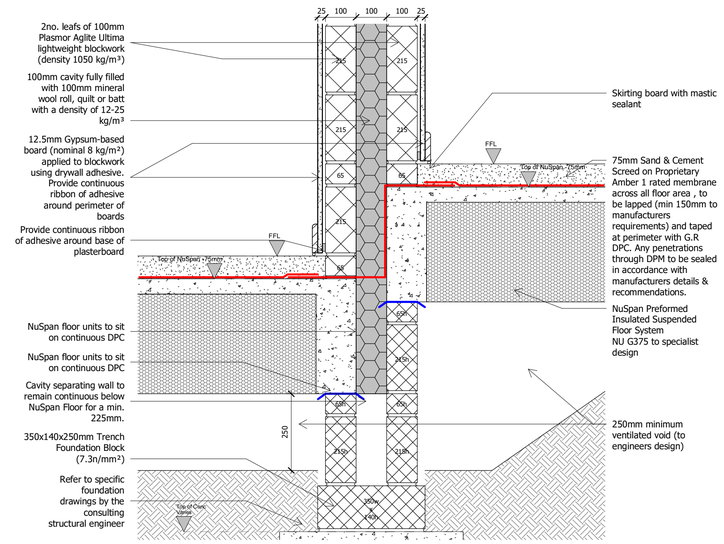
Separating Wall / Ground Floor Junction
Robust Detail E-WM-34



Stone External Wall / Ground Floor Threshold Junction
Level Access Principle Entrance Doors



Stone External Wall / Ground Floor Threshold Junction
Patio Doors



Typical Separating Wall / Stepped Ground Floor Junction
Robust Detail - E-WM-34

TARGET U-VALUES

External Wall: Brick & Render on Blockwork - 0.21w/m²k
Stone - 0.22w/m²k

Cavity Wall to Garage Wall: 0.20w/m²k

Wall to Garage: 0.34w/m²k

Dormer Wall: 0.26w/m²k

Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)

Ground Floor: 0.11w/m²k

Floor above Garage: 0.15w/m²k

Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)

Roof - Insulated Ceiling: 0.08w/m²k

Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k

Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k

Dormer Flat Roof: 0.16w/m²k

Porch Flat Roof: 0.16w/m²k

Front Entrance Door: 1.10w/m²k

Rear / Side Entrance Door: 1.20w/m²k

Windows: 1.20w/m²k

Patio Doors: 1.30w/m²k

Roof Windows: 1.30w/m²k

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

Rev:	Date:	Drawn:	Checked:	Description:
P3	17.11.23	DW	AH	Revised following client comments
P2	08.11.23	DW	AH	TOC-FFL updated to 900mm
P1	09.10.23	DW	AH	Revised following client comments

Suitability: S0 — Work In Progress

Hollin Gate, Littleborough

Assembly Details - Stone - Sheet 1

Location:
Hollingworth Road
Littleborough

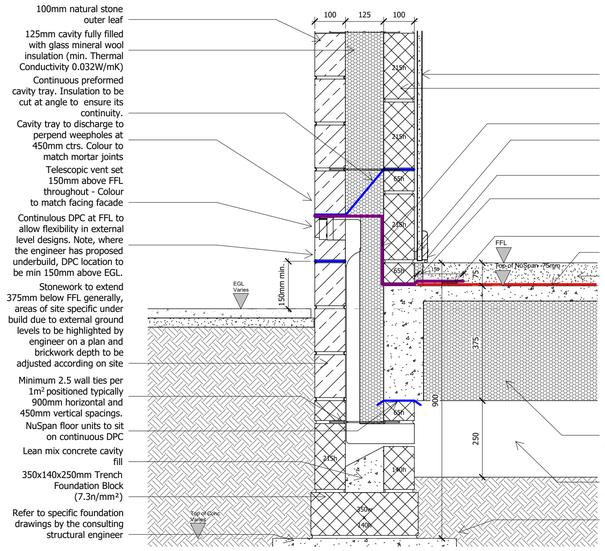
Client:
Countryside Partnerships

UPRN	Originator	Zone	Level	Type	Role	Series/Number	Revision:
						HOLL-WBA-XX-XX-DR-A-20_9101	P3

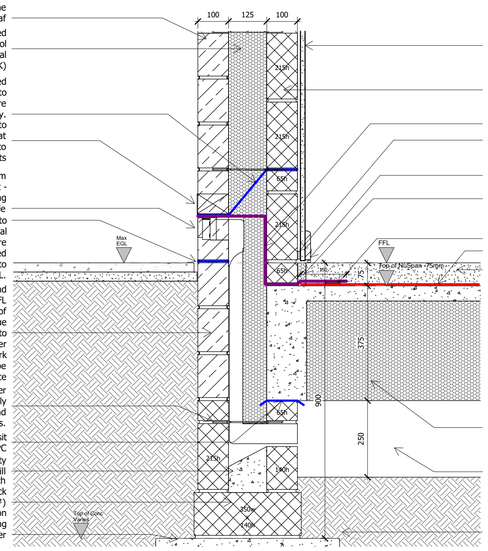
Date:	Drawn:	Checked:	Scale: @A1	Int Job No:
May 23	WMB	RJ	As indicated	4046-001

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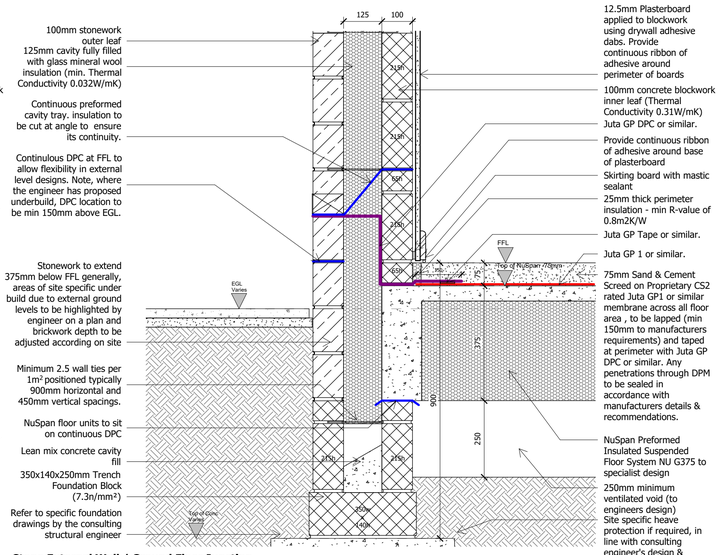
Note: Do not Scale from this drawing. All dimensions to be checked on site



Stone External Wall / Ground Floor Junction
External Ground Level -150



Stone External Wall / Ground Floor Junction
Max External Ground Level



Stone External Wall / Ground Floor Junction
External Ground Level -150

Separating Wall / Ground Floor Junction
Robust Detail E-WM-34

Brick External Wall / Ground Floor Threshold Junction
Level Access Principle Entrance Doors

Brick External Wall / Ground Floor Threshold Junction
Patio Doors

Typical Separating Wall / Stepped Ground Floor Junction
Robust Detail - E-WM-34

Service Penetration Ground Floor

TARGET U-VALUES

External Wall: Brick & Render on Blockwork - 0.21w/m²k
Stone - 0.22w/m²k

Cavity Wall to Garage Wall: 0.20w/m²k

Wall to Garage: 0.34w/m²k

Dormer Wall: 0.26w/m²k

Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)

Ground Floor: 0.11w/m²k

Floor above Garage: 0.15w/m²k

Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)

Roof - Insulated Ceiling: 0.08w/m²k

Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k

Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k

Dormer Flat Roof: 0.16w/m²k

Porch Flat Roof: 0.16w/m²k

Front Entrance Door: 1.10w/m²k

Rear / Side Entrance Door: 1.20w/m²k

Windows: 1.20w/m²k

Patio Doors: 1.30w/m²k

Roof Windows: 1.30w/m²k

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

Rev:	Date:	Drawn:	Checked:	Description:
P4	13.06.24	DW	AH	Updated membrane ref.
P3	17.11.23	DW	AH	Revised following client comments
P2	08.11.23	DW	AH	TOC-FFL updated to 900mm
P1	09.10.23	DW	AH	Revised following client comments

Suitability: S0 Work In Progress

Hollin Gate, Littleborough

Assembly Details - Stone - Sheet 1

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

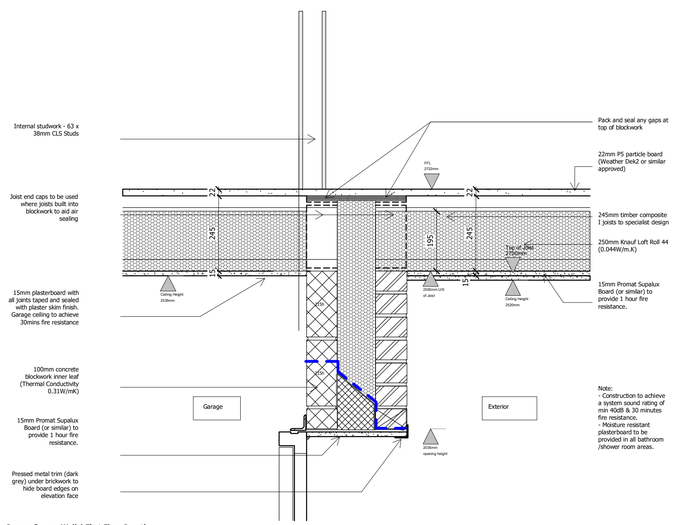
Originator	Zone	Level	Type	Role	Series/Number	Revision:
HOLL-WBA-XX-XX-DR-A-20_9101						P4

Date:	Drawn:	Checked:	Scale: @A1	Int Job No:
May 23	WMB	RJ	As indicated	4046-001

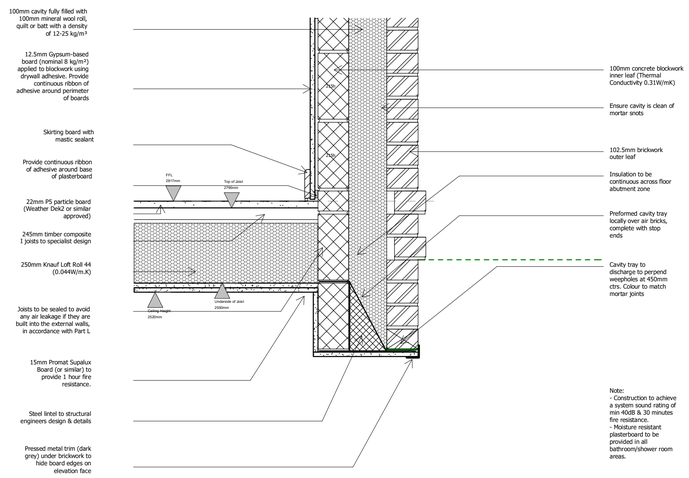
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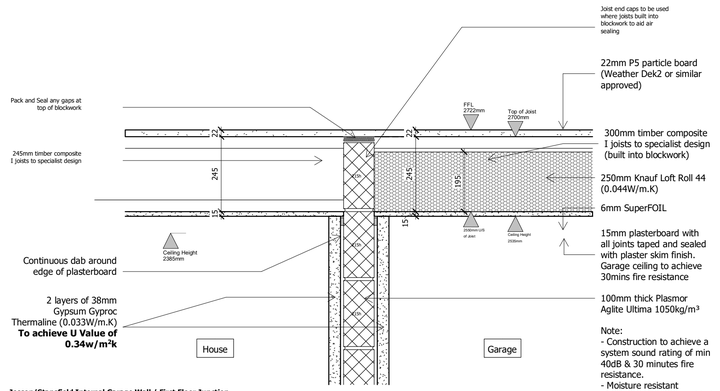
FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site



Jessop Garage Wall / First Floor Junction (Joists Perpendicular)





Jessop/Stansfield Internal Garage Wall / First Floor Junction (Joists Perpendicular)

TARGET U-VALUES
External Wall: Brick & Render on Blockwork - 0.21w/m²k Stone - 0.22w/m²k
Cavity Wall to Garage Wall: 0.20w/m²k
Wall to Garage: 0.34w/m²k
Dormer Wall: 0.26w/m²k
Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)
Ground Floor: 0.11w/m²k
Floor above Garage: 0.15w/m²k
Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)
Roof - Insulated Ceiling: 0.08w/m²k
Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k
Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k
Dormer Flat Roof: 0.16w/m²k
Porch Flat Roof: 0.16w/m²k
Front Entrance Door: 1.10w/m²k
Rear / Side Entrance Door: 1.20w/m²k
Windows: 1.20w/m²k
Patio Doors: 1.30w/m²k
Roof Windows: 1.30w/m²k

Seperating Wall Jessop Integral Garage Adjacent Pair - Robust Detail E-WM-34

Brick External Wall Jessop Integral Garage

Jessop/Stansfield Integral Garage Wall / Ground Floor Junction

Seperating Wall Jessop Integral Garage Adjacent Living Space - Robust Detail E-WM-34

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

Rev:	Date:	Drawn:	Checked:	Description:
P1	17.11.23	DW	AH	Initial issue.

Suitability: S0 Work In Progress

Hollin Gate, Littleborough

Feature Assembly Details - Sheet 1

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

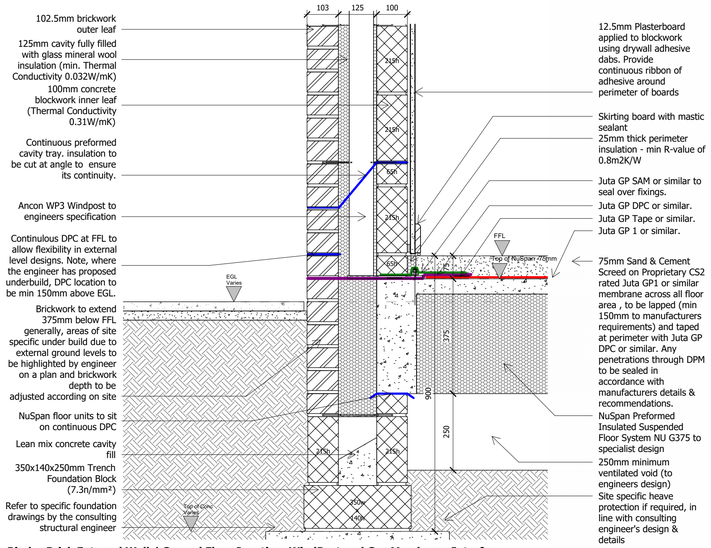
UPRN	Originator	Zone	Level	Type	Role	Series/Number	Revision:
HOLL-WBA-XX-XX-DR-A-20_9201							P1

Date:	Drawn:	Checked:	Scale: @A1	Int Job No:
02/28/23	WMB	RJ	As indicated	4046-001

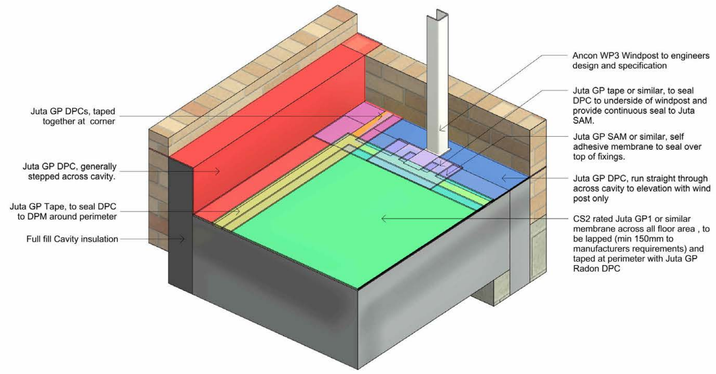
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FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site



Birch - Brick External Wall / Ground Floor Junction. WindPost and Gas Membrane Interface
External Ground Level -150 Note: Detail applies to rear elevation of Plots 1, 39 and 46 only.



Birch - Windpost and Gas Membrane interface, 3D Detail.
Note: Detail applies to rear elevation of Plots 1, 39 and 46 only.

TARGET U-VALUES

External Wall: Brick & Render on Blockwork - 0.21w/m²k
Stone - 0.22w/m²k

Cavity Wall to Garage Wall: 0.20w/m²k

Wall to Garage: 0.34w/m²k

Dormer Wall: 0.26w/m²k

Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)

Ground Floor: 0.11w/m²k

Floor above Garage: 0.15w/m²k

Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)

Roof - Insulated Ceiling: 0.08w/m²k

Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k

Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k

Dormer Flat Roof: 0.16w/m²k

Porch Flat Roof: 0.16w/m²k

Front Entrance Door: 1.10w/m²k

Rear / Side Entrance Door: 1.20w/m²k

Windows: 1.20w/m²k

Patio Doors: 1.30w/m²k

Roof Windows: 1.30w/m²k

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

Rev:	Date:	Drawn:	Checked:	Description:
P2	13.06.24	DW	AH	Updated membrane ref.
P1	07.06.24	DW	AH	Initial Issue.

Suitability:
S0 Work In Progress

Hollin Gate, Littleborough

Feature Assembly Details - Sheet 7

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

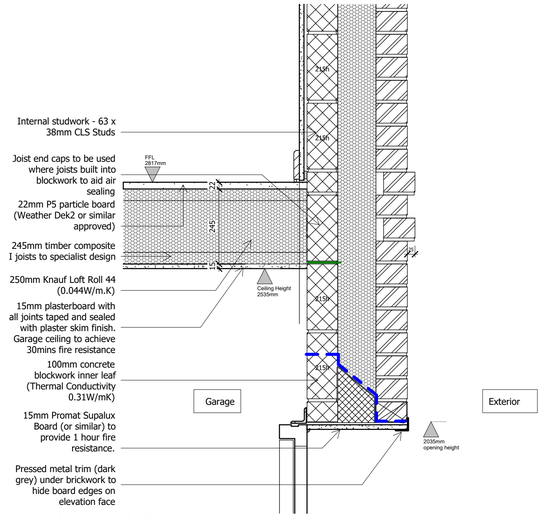
URPN	Originator	Zone	Level	Type	Role	Series/Number	Revision:
HOLL-WBA-XX-XX-DR-A-20_9207							P2

Date:	Drawn:	Checked:	Scale: @A1	Int Job No:
jun 24	DW	RJ	As indicated	4046-001

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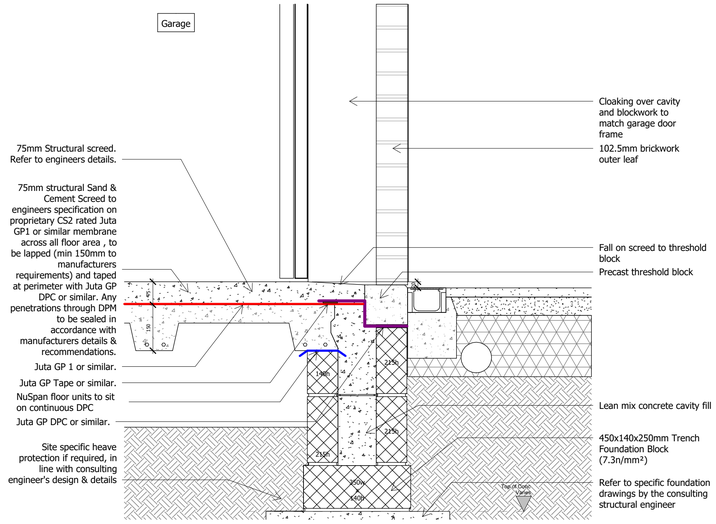
FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site

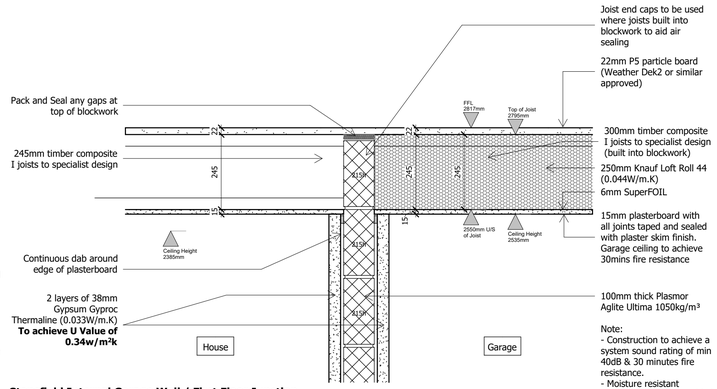


Stansfield Garage Wall / First Floor Junction (Joists Perpendicular)

Note:
- Construction to achieve a system sound rating of min 40dB & 30 minutes fire resistance.
- Moisture resistant plasterboard to be provided in all bathroom /shower room areas.



Stansfield Brick External Wall Adjacent to Garage Threshold Integral Garage



Note:
- Construction to achieve a system sound rating of min 40dB & 30 minutes fire resistance.
- Moisture resistant plasterboard to be provided in all bathroom/shower room areas.

Stansfield Internal Garage Wall / First Floor Junction (Joists Perpendicular)

Seperating Wall Stansfield Integral Garage Adjacent Pair - Robust Detail E-WM-34

Stansfield Brick External Wall Adjacent to Garage Threshold Integral Garage

Stansfield Integral Garage Wall / Ground Floor Junction

TARGET U-VALUES

External Wall: Brick & Render on Blockwork - 0.21w/m²k
Stone - 0.22w/m²k

Cavity Wall to Garage Wall: 0.20w/m²k

Wall to Garage: 0.34w/m²k

Dormer Wall: 0.26w/m²k

Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)

Ground Floor: 0.11w/m²k

Floor above Garage: 0.15w/m²k

Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)

Roof - Insulated Ceiling: 0.08w/m²k

Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k

Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k

Dormer Flat Roof: 0.16w/m²k

Porch Flat Roof: 0.16w/m²k

Front Entrance Door: 1.10w/m²k

Rear / Side Entrance Door: 1.20w/m²k

Windows: 1.20w/m²k

Patio Doors: 1.30w/m²k

Roof Windows: 1.30w/m²k

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

P1 13.06.24 DW AH Initial issue.

Rev:	Date:	Drawn:	Checked:	Description:

Suitability: S0 Work In Progress

Hollin Gate, Littleborough

Feature Assembly Details - Sheet 8

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

UPRN	Originator	Zone	Level	Type	Role	Series/Number	Revision:
	HOLL-WBA-XX-XX-DR-A-20_9208						P1

Date:	Drawn:	Checked:	Scale: @A1	Int Job No:
02/28/23	WMB	RJ	As indicated	4046-001

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FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site